



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
480-502 E. Main Street (ISGS Site No. 2948-2)

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

County: Will Township: \_\_\_\_\_

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

Latitude: 41.260612300 Longitude: -88.207402269  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113Latitude: 41.260612300 Longitude: -88.207402269Uncontaminated 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 R2-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-2. 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: 500-108244-1.  
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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R2-1(0-1)-030216	R2-1(0-1)-030216D	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	
Location ID	R2-1	R2-1	
Depth	0 - 1	0 - 1	
Location Code	2948-2	2948-2	
Parameter			
Laboratory pH	7.94	7.71	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	42	26 J	900 / 1100 / 1800
Benzo(a)pyrene	51	34 J	90 / 1300 / 2100
Benzo(b)fluoranthene	82	66	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	24 J	22 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	2.7 J	2.3 J	11.3 / 13
Barium, Total	20	16	1500
Beryllium, Total	0.32	0.29	22
Cadmium, Total	0.22	0.12	5.2
Calcium, Total	11000 J-	17000 J-	---
Chromium, Total	6 B	6.1 B	21
Iron, Total	6100 J	5900 J	15000 / 15900
Lead, Total	28 J	22 J	107
Manganese, Total	55 J	56 J	630 / 636
Mercury, Total	0.033	0.041	0.89
Nickel, Total	4.7 B	4.8 B	100
Potassium, Total	280 B	290 B	---
Selenium, Total	ND	0.4 J	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	38	31	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.17 J	0.17 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.002 J	0.0022 J	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.62	0.62	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	0.32 J	0.69	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.013 J	0.05
Barium, SPLP	0.11 J	0.12 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.034	0.038	0.1
Iron, SPLP	30 J+	34 J+	5
Lead, SPLP	0.085	0.095	0.0075
Manganese, SPLP	0.13	0.15	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.022 J	0.025	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	ND	ND	5

**Summary Table of ISGS Site No. 2948-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

- 1
- 2
- 3
- 4
- 5
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- 8
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216**

**Lab Sample ID: 500-108244-1**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 23:01	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:01	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 23:01	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:01	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:01	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 23:01	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 23:01	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:01	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/03/16 23:01	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 23:01	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:01	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 23:01	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:01	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 23:01	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 23:01	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:01	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/16 23:01	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:01	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 23:01	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 23:01	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:01	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:01	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 23:01	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:01	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:01	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/03/16 23:01	1
Dibromofluoromethane	101		75 - 120		03/03/16 23:01	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/03/16 23:01	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 23:01	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	☼	03/05/16 16:34	03/07/16 00:10	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216**

**Lab Sample ID: 500-108244-1**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	38	6.9	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Acenaphthylene</b>	<b>9.0</b>	<b>J</b>	38	5.0	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Anthracene</b>	<b>11</b>	<b>J</b>	38	6.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Benzo[a]anthracene</b>	<b>42</b>		38	5.1	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Benzo[a]pyrene</b>	<b>51</b>		38	7.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Benzo[b]fluoranthene</b>	<b>82</b>		38	8.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Benzo[g,h,i]perylene</b>	<b>21</b>	<b>J</b>	38	12	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Benzo[k]fluoranthene</b>	<b>28</b>	<b>J</b>	38	11	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>97</b>	<b>J</b>	190	69	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Carbazole	<190		190	94	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Chrysene</b>	<b>58</b>		38	10	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Fluoranthene</b>	<b>86</b>		38	7.0	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1

TestAmerica Chicago

# Client Sample Results

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Project/Site: IDOT - IL Route 113 - WO 040

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**Percent Solids: 86.0**

## 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>24</b>	<b>J</b>	38	9.8	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Phenanthrene</b>	<b>130</b>		38	5.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Phenol	<190		190	84	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
<b>Pyrene</b>	<b>70</b>		38	7.5	ug/Kg	☼	03/05/16 16:34	03/07/16 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137				03/05/16 16:34	03/07/16 00:10	1
2-Fluorobiphenyl	76		25 - 119				03/05/16 16:34	03/07/16 00:10	1
2-Fluorophenol	79		25 - 110				03/05/16 16:34	03/07/16 00:10	1
Nitrobenzene-d5	68		25 - 115				03/05/16 16:34	03/07/16 00:10	1
Phenol-d5	81		31 - 110				03/05/16 16:34	03/07/16 00:10	1
Terphenyl-d14	84		36 - 134				03/05/16 16:34	03/07/16 00:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 10:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 10:28	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 10:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 10:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 10:28	1
<b>Manganese</b>	<b>0.62</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 10:28	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:28	1
<b>Zinc</b>	<b>0.32</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 10:28	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		03/06/16 11:11	03/08/16 14:29	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 14:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 14:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Chromium</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Iron</b>	<b>30</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Lead</b>	<b>0.085</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:29	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 14:29	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216**

**Lab Sample ID: 500-108244-1**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**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		03/06/16 11:11	03/08/16 14:29	1
<b>Zinc</b>	<b>0.55</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 14:29	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	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Arsenic</b>	<b>2.7</b>		0.57	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Barium</b>	<b>20</b>		0.57	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Beryllium</b>	<b>0.32</b>		0.23	0.049	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Cadmium</b>	<b>0.22</b>		0.11	0.033	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Calcium</b>	<b>11000</b>		11	3.7	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Chromium</b>	<b>6.0</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Cobalt</b>	<b>1.5</b>		0.28	0.064	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Copper</b>	<b>4.1</b>		0.57	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Iron</b>	<b>6100</b>	<b>B</b>	11	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Lead</b>	<b>28</b>		0.28	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Magnesium</b>	<b>6600</b>		5.7	2.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Manganese</b>	<b>55</b>		0.57	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Nickel</b>	<b>4.7</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Potassium</b>	<b>280</b>	<b>B</b>	28	4.6	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Sodium</b>	<b>190</b>	<b>B</b>	57	7.5	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Vanadium</b>	<b>11</b>		0.28	0.083	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	1
<b>Zinc</b>	<b>38</b>		1.1	0.36	mg/Kg	☼	03/03/16 15:37	03/04/16 16:34	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		03/05/16 16:15	03/09/16 12:23	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		03/05/16 16:15	03/07/16 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>33</b>		18	9.6	ug/Kg	☼	03/03/16 16:15	03/04/16 10:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.94</b>		0.200	0.200	SU			03/03/16 13:46	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216D**

**Lab Sample ID: 500-108244-2**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 23:26	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:26	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 23:26	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:26	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:26	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 23:26	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 23:26	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:26	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/03/16 23:26	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 23:26	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:26	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 23:26	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:26	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 23:26	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 23:26	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 23:26	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/16 23:26	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 23:26	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 23:26	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 23:26	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:26	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 23:26	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 23:26	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 23:26	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 23:26	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 23:26	1
Dibromofluoromethane	103		75 - 120		03/03/16 23:26	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/03/16 23:26	1
Toluene-d8 (Surr)	105		75 - 122		03/03/16 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216D**

**Lab Sample ID: 500-108244-2**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Acenaphthylene</b>	<b>11 J</b>		37	4.9	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Benzo[a]anthracene</b>	<b>26 J</b>		37	5.0	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Benzo[a]pyrene</b>	<b>34 J</b>		37	7.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Benzo[b]fluoranthene</b>	<b>66</b>		37	8.0	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Benzo[g,h,i]perylene</b>	<b>18 J</b>		37	12	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Benzo[k]fluoranthene</b>	<b>20 J</b>		37	11	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>94 J</b>		190	68	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Carbazole	<190		190	93	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Chrysene</b>	<b>39</b>		37	10	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Fluoranthene</b>	<b>70</b>		37	6.9	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216D**

**Lab Sample ID: 500-108244-2**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

## 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>22</b>	<b>J</b>	37	9.6	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Phenanthrene</b>	<b>71</b>		37	5.2	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Phenol	<190		190	83	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
<b>Pyrene</b>	<b>51</b>		37	7.4	ug/Kg	☼	03/05/16 16:34	03/07/16 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137				03/05/16 16:34	03/07/16 00:39	1
2-Fluorobiphenyl	67		25 - 119				03/05/16 16:34	03/07/16 00:39	1
2-Fluorophenol	82		25 - 110				03/05/16 16:34	03/07/16 00:39	1
Nitrobenzene-d5	29		25 - 115				03/05/16 16:34	03/07/16 00:39	1
Phenol-d5	56		31 - 110				03/05/16 16:34	03/07/16 00:39	1
Terphenyl-d14	74		36 - 134				03/05/16 16:34	03/07/16 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 10:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 10:33	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 10:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 10:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 10:33	1
<b>Manganese</b>	<b>0.62</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 10:33	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:33	1
<b>Zinc</b>	<b>0.69</b>		0.50	0.020	mg/L		03/06/16 12:10	03/07/16 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.013</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 14:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 14:35	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Chromium</b>	<b>0.038</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Iron</b>	<b>34</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Lead</b>	<b>0.095</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 14:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R2-1(0-1)-030216D**

**Lab Sample ID: 500-108244-2**

**Date Collected: 03/02/16 08:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**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		03/06/16 11:11	03/08/16 14:35	1
<b>Zinc</b>	<b>0.47</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 14:35	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	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Arsenic</b>	<b>2.3</b>		0.56	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Barium</b>	<b>16</b>		0.56	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Beryllium</b>	<b>0.29</b>		0.22	0.049	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.032	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Calcium</b>	<b>17000</b>		11	3.6	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Chromium</b>	<b>6.1</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Cobalt</b>	<b>1.7</b>		0.28	0.063	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Copper</b>	<b>3.4</b>		0.56	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Iron</b>	<b>5900</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Lead</b>	<b>22</b>		0.28	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Magnesium</b>	<b>10000</b>		5.6	2.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Manganese</b>	<b>56</b>		0.56	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Nickel</b>	<b>4.8</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Potassium</b>	<b>290</b>	<b>B</b>	28	4.6	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Sodium</b>	<b>180</b>	<b>B</b>	56	7.4	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Vanadium</b>	<b>11</b>		0.28	0.082	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1
<b>Zinc</b>	<b>31</b>		1.1	0.35	mg/Kg	☼	03/03/16 15:37	03/04/16 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>41</b>		19	9.8	ug/Kg	☼	03/03/16 16:15	03/04/16 10:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.71</b>		0.200	0.200	SU			03/03/16 13:54	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total metals		TCLP/SPLP metals		PH							
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>																	
Sampler		Date		Time															
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH						Comments		
<u>1</u>		<u>R2-1(0-1)-030216</u>	<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>R2-1(0-1)-030216D</u>		<u>0840</u>															
<u>3</u>		<u>RC-1(0-1)-030216</u>		<u>0855</u>															
<u>4</u>		<u>RC-2(0-1)-030216</u>		<u>0905</u>															
<u>5</u>		<u>RC-3(0-1)-030216</u>		<u>0920</u>															
<u>6</u>		<u>RC-4(0-1)-030216</u>		<u>0940</u>															
<u>7</u>		<u>RC-5(0-1)-030216</u>		<u>0950</u>															
<u>8</u>		<u>BDS-1(0-1)-030216</u>		<u>1000</u>															
<u>9</u>		<u>BDS-2(0-1)-030216</u>		<u>1010</u>															
<u>10</u>		<u>BDS-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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:



# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>Western</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	NOCS	SNOCS	Total metals	TCU/SLP metals	PH							Comments	
<u>IDOT-040</u>				Date	Time															
Project Location/State <u>Bradwood &amp; Cule Park / IL</u>		Lab PM <u>D. Wright</u>																		
Sampler <u>T. Walls</u>																				
11		BDS-4(0-1)-030216		3-2-16	1035	2	S	X	X	X	X	X								
12		BDS-4(0-1)-030216D			1035															
13		BDS-5(0-1)-030216			1050															
14		WL9-1(0-1)-030216			1100															
15		WL9-2(0-1)-030216			1115															
16		WL9-3(0-1)-030216			1125															
17		R10-1(0-1)-030216			1135															
18		F11-1(0-1)-030216			1235															
19		F11-2(0-1)-030216			1245															
20		F11-3(0-1)-030216		3-2-16	1250	2	S	X	X	X	X	X								

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  standard Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

500 block of E. Main Street (ISGS Site No. 2948-4)

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

County: Will Township: \_\_\_\_\_

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

Latitude: 41.260558318 Longitude: -88.206529486

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260558318 Longitude: -88.206529486

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 WL4-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-4. 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: 500-108434-1.  
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:

5 MAY 2016

Date:



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

**Summary Table of ISGS Site No. 2948-4**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	WL4-1(0-1)-030716	<b>Soil Reference Concentrations</b>
Sample Date	3/7/2016	
Location ID	WL4-1	
Depth	0 - 1	
Location Code	2948-4	
Parameter		
Laboratory pH	8.86	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)pyrene	700 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1100 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	3.1	11.3 / 13
Barium, Total	19	1500
Beryllium, Total	0.42	22
Cadmium, Total	0.41	5.2
Calcium, Total	18000 J	---
Chromium, Total	7.5 B	21
Iron, Total	6500 J+	15000 / 15900
Lead, Total	68 J	107
Manganese, Total	78 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	5.9 B	100
Potassium, Total	300 J+	---
Selenium, Total	0.41 J	1.3
Silver, Total	ND	4.4
Zinc, Total	69 B	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.14 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0033 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	0.015	0.0075
Manganese, TCLP	0.62	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.33 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.015 J	0.05
Barium, SPLP	0.23 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.037	0.1
Iron, SPLP	27	5
Lead, SPLP	0.19	0.0075
Manganese, SPLP	0.18	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.024 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.61	5

**Summary Table of ISGS Site No. 2948-4**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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.*

- 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: WL4-1(0-1)-030716**

**Lab Sample ID: 500-108434-9**

**Date Collected: 03/07/16 10:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/08/16 15:12	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 15:12	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/08/16 15:12	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 15:12	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 15:12	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/08/16 15:12	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 15:12	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 15:12	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/08/16 15:12	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/08/16 15:12	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 15:12	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/08/16 15:12	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 15:12	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/08/16 15:12	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/08/16 15:12	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/08/16 15:12	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 15:12	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/08/16 15:12	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 15:12	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/08/16 15:12	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 15:12	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 15:12	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 15:12	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 15:12	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 15:12	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/08/16 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/08/16 15:12	1
Dibromofluoromethane	102		75 - 120		03/08/16 15:12	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/08/16 15:12	1
Toluene-d8 (Surr)	110		75 - 122		03/08/16 15:12	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	☼	03/08/16 16:15	03/12/16 00:58	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: WL4-1(0-1)-030716**

**Lab Sample ID: 500-108434-9**

**Date Collected: 03/07/16 10:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.0**

**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	☼	03/08/16 16:15	03/12/16 00:58	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>2-Methylnaphthalene</b>	<b>19</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Acenaphthene</b>	<b>25</b>	<b>J</b>	36	6.5	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Acenaphthylene</b>	<b>120</b>		36	4.8	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Anthracene</b>	<b>140</b>		36	6.1	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Benzo[a]anthracene</b>	<b>630</b>	*	36	4.9	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Benzo[a]pyrene</b>	<b>700</b>	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Benzo[b]fluoranthene</b>	<b>1100</b>	*	36	7.8	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Benzo[g,h,i]perylene</b>	<b>350</b>	*	36	12	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Benzo[k]fluoranthene</b>	<b>390</b>	*	36	11	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Chrysene</b>	<b>650</b>	*	36	9.9	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Dibenz(a,h)anthracene</b>	<b>76</b>	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Fluoranthene</b>	<b>1200</b>		36	6.7	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Fluorene</b>	<b>38</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: WL4-1(0-1)-030716**

**Lab Sample ID: 500-108434-9**

**Date Collected: 03/07/16 10:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.0**

**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>300</b>	*	36	9.4	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Naphthalene</b>	<b>13</b>	J	36	5.6	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Phenanthrene</b>	<b>550</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Pyrene</b>	<b>2400</b>	*	36	7.2	ug/Kg	☼	03/08/16 16:15	03/12/16 00:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	78		35 - 137				03/08/16 16:15	03/12/16 00:58	1
2-Fluorobiphenyl	69		25 - 119				03/08/16 16:15	03/12/16 00:58	1
2-Fluorophenol	77		25 - 110				03/08/16 16:15	03/12/16 00:58	1
Nitrobenzene-d5	63		25 - 115				03/08/16 16:15	03/12/16 00:58	1
Phenol-d5	79		31 - 110				03/08/16 16:15	03/12/16 00:58	1
Terphenyl-d14	156	X *	36 - 134				03/08/16 16:15	03/12/16 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
<b>Barium</b>	<b>0.14</b>	J	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 15:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 15:41	1
<b>Cadmium</b>	<b>0.0033</b>	J	0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 15:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 15:41	1
<b>Lead</b>	<b>0.015</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 15:41	1
<b>Manganese</b>	<b>0.62</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 15:41	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:41	1
<b>Zinc</b>	<b>0.33</b>	J	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	J	0.050	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Barium</b>	<b>0.23</b>	J	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Chromium</b>	<b>0.037</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Copper</b>	<b>0.036</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Iron</b>	<b>27</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
<b>Nickel</b>	<b>0.024</b>	J	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:57	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: WL4-1(0-1)-030716**

**Lab Sample ID: 500-108434-9**

**Date Collected: 03/07/16 10:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.0**

**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		03/11/16 08:51	03/11/16 22:57	1
<b>Zinc</b>	<b>0.61</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:57	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	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Arsenic</b>	<b>3.1</b>		0.56	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Barium</b>	<b>19</b>		0.56	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Beryllium</b>	<b>0.42</b>		0.23	0.049	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Cadmium</b>	<b>0.41</b>		0.11	0.033	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Chromium</b>	<b>7.5</b>	<b>B</b>	2.8	0.097	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Cobalt</b>	<b>2.0</b>		0.28	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Copper</b>	<b>5.5</b>		0.56	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Iron</b>	<b>6500</b>		11	4.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Lead</b>	<b>68</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Magnesium</b>	<b>11000</b>		5.6	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Manganese</b>	<b>78</b>		0.56	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Nickel</b>	<b>5.9</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Potassium</b>	<b>300</b>		28	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Selenium</b>	<b>0.41</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Sodium</b>	<b>720</b>		56	7.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Vanadium</b>	<b>9.9</b>		0.28	0.082	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1
<b>Zinc</b>	<b>69</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 15:56	03/10/16 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:08	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		03/10/16 20:00	03/12/16 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.8	ug/Kg	☼	03/09/16 14:00	03/11/16 12:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.86</b>		0.200	0.200	SU			03/09/16 14:55	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

Per Manual 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434

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

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH		
Project Location/State		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	Comments							
Weston Solutions		02056-04-040-0030		7 7 7 7 7								
IDOT 040-IL Route 113												
Brandwood Dr		D. Wright										
M. Doherty-Skubic												
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	X	
12		AL32-1(0-1)-030716		1203								
13		GL33-1(0-1)-030716		1220								
14		R34-1(0-1)-030716		1230								
15		F36-1(0-1)-030716		1250								
16		F36-1(0-1)-030716 D		1250								
17		AL32-2(0-1)-030716		1305								
18		F40-1(0-1)-030716		1335								
19		F40-2(0-1)-030716		1350								
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

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

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

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

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

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

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

700 E. Main Street (ISGS Site No. 2948-5)

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

County: Will Township: \_\_\_\_\_

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

Latitude: 41.260589074 Longitude: -88.203297672

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260589074 Longitude: -88.203297672

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 F5-1 AND F5-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-5. 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: 500-108434-1.  
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.

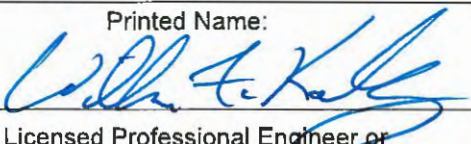
Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

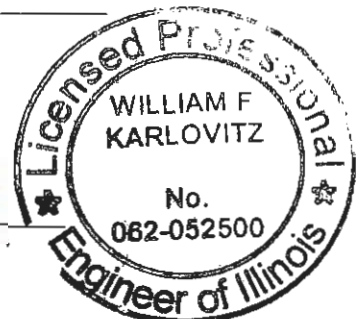
Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature.

5 MAY 2016

Date:



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



**Summary Table of ISGS Site No. 2948-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F5-1(0-1)-030716	F5-2(0-1)-030716	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	
Location ID	F5-1	F5-2	
Depth	0 - 1	0 - 1	
Location Code	2948-5	2948-5	
<b>Parameter</b>			
Laboratory pH	8.81	8.41	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	ND	24 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	24 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	43 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.8	2.7	11.3 / 13
Barium, Total	11	16	1500
Beryllium, Total	0.16 J	0.5	22
Cadmium, Total	0.073 J	0.29	5.2
Calcium, Total	2500 J	7900 J	---
Chromium, Total	ND	7.5 B	21
Iron, Total	5000 J+	8100 J+	15000 / 15900
Lead, Total	5.3 J	13 J	107
Manganese, Total	26 J	44 J	630 / 636
Mercury, Total	0.039 J	0.047 J	0.89
Nickel, Total	4.1 B	6.6 B	100
Potassium, Total	180 J+	190 J+	---
Selenium, Total	0.27 J	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	20 B	53 B	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.11 J	0.14 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	0.003 J	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.25	0.4	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	0.54	0.18 J	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	0.01 J	0.05
Barium, SPLP	0.078 J	0.19 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.013 J	0.042	0.1
Iron, SPLP	10	32	5
Lead, SPLP	0.013	0.043	0.0075
Manganese, SPLP	0.032	0.077	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	0.025	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.11 J	0.75	5

**Summary Table of ISGS Site No. 2948-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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.*

- 1
- 2
- 3
- 4
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- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-1(0-1)-030716**

**Lab Sample ID: 500-108434-7**

**Date Collected: 03/07/16 10:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 91.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/08/16 14:22	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/08/16 14:22	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/08/16 14:22	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/08/16 14:22	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/08/16 14:22	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/08/16 14:22	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/08/16 14:22	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/08/16 14:22	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/08/16 14:22	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/08/16 14:22	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/08/16 14:22	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/08/16 14:22	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/08/16 14:22	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/08/16 14:22	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/08/16 14:22	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/08/16 14:22	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/08/16 14:22	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/08/16 14:22	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/08/16 14:22	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/08/16 14:22	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/08/16 14:22	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/08/16 14:22	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/08/16 14:22	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/08/16 14:22	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/08/16 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 14:22	1
Dibromofluoromethane	103		75 - 120		03/08/16 14:22	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/08/16 14:22	1
Toluene-d8 (Surr)	104		75 - 122		03/08/16 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-1(0-1)-030716**

**Lab Sample ID: 500-108434-7**

**Date Collected: 03/07/16 10:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 91.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Nitroaniline	<340		340	150	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Acenaphthylene	<34		34	4.6	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Anthracene	<34		34	5.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Benzo[a]anthracene	<34		34	4.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Benzo[a]pyrene	<34		34	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Benzo[b]fluoranthene	<34		34	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Benzo[g,h,i]perylene	<34		34	11	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Benzo[k]fluoranthene	<34		34	10	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Carbazole	<170		170	87	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Chrysene	<34		34	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Dibenz(a,h)anthracene	<34		34	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Fluoranthene	<34		34	6.4	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Fluorene	<34		34	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-1(0-1)-030716**

**Lab Sample ID: 500-108434-7**

**Date Collected: 03/07/16 10:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 91.3**

## 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	<34		34	9.0	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Isophorone	<170		170	39	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Nitrobenzene	<34		34	8.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Phenanthrene	<34		34	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Phenol	<170		170	77	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1
Pyrene	<34		34	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137	03/08/16 16:15	03/10/16 13:00	1
2-Fluorobiphenyl	63		25 - 119	03/08/16 16:15	03/10/16 13:00	1
2-Fluorophenol	63		25 - 110	03/08/16 16:15	03/10/16 13:00	1
Nitrobenzene-d5	67		25 - 115	03/08/16 16:15	03/10/16 13:00	1
Phenol-d5	58		31 - 110	03/08/16 16:15	03/10/16 13:00	1
Terphenyl-d14	72		36 - 134	03/08/16 16:15	03/10/16 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 15:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 15:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 15:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 15:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 15:12	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 15:12	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:12	1
<b>Zinc</b>	<b>0.54</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
<b>Barium</b>	<b>0.078</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:27	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
<b>Iron</b>	<b>10</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:27	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:27	1
<b>Manganese</b>	<b>0.032</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:27	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-1(0-1)-030716**

**Lab Sample ID: 500-108434-7**

Date Collected: 03/07/16 10:10

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 91.3

**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		03/11/16 08:51	03/11/16 22:27	1
Zinc	0.11	J	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:27	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	☼	03/09/16 15:56	03/10/16 21:56	1
Arsenic	1.8		0.53	0.24	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Barium	11		0.53	0.097	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Beryllium	0.16	J	0.21	0.046	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Cadmium	0.073	J	0.11	0.031	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Calcium	2500	B	11	3.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Chromium	5.6	B	2.6	0.091	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Cobalt	1.4		0.26	0.060	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Copper	2.2		0.53	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Iron	5000		11	4.1	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Lead	5.3		0.26	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Magnesium	1700		5.3	2.1	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Manganese	26		0.53	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Nickel	4.1	B	0.53	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Potassium	180		26	4.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Selenium	0.27	J	0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Sodium	350		53	7.0	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Vanadium	10		0.26	0.077	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	1
Zinc	20	B	1.1	0.33	mg/Kg	☼	03/09/16 15:56	03/10/16 21:56	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		03/10/16 20:00	03/12/16 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		17	8.8	ug/Kg	☼	03/09/16 14:00	03/11/16 12:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			03/09/16 14:47	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-2(0-1)-030716**

**Lab Sample ID: 500-108434-8**

**Date Collected: 03/07/16 10:25**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 88.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/08/16 14:47	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
Bromodichloromethane	<5.7		5.7	0.95	ug/Kg	☼		03/08/16 14:47	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 14:47	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 14:47	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/08/16 14:47	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 14:47	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 14:47	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/08/16 14:47	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/08/16 14:47	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 14:47	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/08/16 14:47	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 14:47	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 14:47	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/08/16 14:47	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/08/16 14:47	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/08/16 14:47	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/08/16 14:47	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 14:47	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/08/16 14:47	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 14:47	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 14:47	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 14:47	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/08/16 14:47	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 14:47	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/08/16 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/08/16 14:47	1
Dibromofluoromethane	105		75 - 120		03/08/16 14:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/08/16 14:47	1
Toluene-d8 (Surr)	103		75 - 122		03/08/16 14:47	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	☼	03/08/16 16:15	03/10/16 15:26	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-2(0-1)-030716**

**Lab Sample ID: 500-108434-8**

**Date Collected: 03/07/16 10:25**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 88.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Benzo[a]anthracene</b>	<b>24</b>	<b>J</b>	35	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Benzo[a]pyrene</b>	<b>24</b>	<b>J*</b>	35	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Benzo[b]fluoranthene</b>	<b>43</b>	<b>*</b>	35	7.6	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Benzo[k]fluoranthene</b>	<b>12</b>	<b>J*</b>	35	10	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Carbazole	<180		180	89	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Chrysene</b>	<b>31</b>	<b>J</b>	35	9.7	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Fluoranthene</b>	<b>40</b>		35	6.6	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-2(0-1)-030716**

**Lab Sample ID: 500-108434-8**

**Date Collected: 03/07/16 10:25**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 88.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.2	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Isophorone	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Phenanthrene</b>	<b>83</b>		35	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Phenol	<180		180	79	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
<b>Pyrene</b>	<b>48</b>		35	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137				03/08/16 16:15	03/10/16 15:26	1
2-Fluorobiphenyl	84		25 - 119				03/08/16 16:15	03/10/16 15:26	1
2-Fluorophenol	84		25 - 110				03/08/16 16:15	03/10/16 15:26	1
Nitrobenzene-d5	86		25 - 115				03/08/16 16:15	03/10/16 15:26	1
Phenol-d5	71		31 - 110				03/08/16 16:15	03/10/16 15:26	1
Terphenyl-d14	143	X	36 - 134				03/08/16 16:15	03/10/16 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 15:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 15:19	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 15:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 15:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 15:19	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 15:19	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:19	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Chromium</b>	<b>0.042</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Iron</b>	<b>32</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Lead</b>	<b>0.043</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Manganese</b>	<b>0.077</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F5-2(0-1)-030716**

**Lab Sample ID: 500-108434-8**

Date Collected: 03/07/16 10:25

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 88.5

**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		03/11/16 08:51	03/11/16 22:34	1
<b>Zinc</b>	<b>0.75</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:34	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	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Arsenic</b>	<b>2.7</b>		0.54	0.25	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Barium</b>	<b>16</b>		0.54	0.099	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Beryllium</b>	<b>0.50</b>		0.22	0.047	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.031	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Calcium</b>	<b>7900</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Chromium</b>	<b>7.5</b>	<b>B</b>	2.7	0.093	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Cobalt</b>	<b>2.0</b>		0.27	0.061	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Copper</b>	<b>3.8</b>		0.54	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Iron</b>	<b>8100</b>		11	4.2	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Lead</b>	<b>13</b>		0.27	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Magnesium</b>	<b>4400</b>		5.4	2.2	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Manganese</b>	<b>44</b>		0.54	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Nickel</b>	<b>6.6</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Potassium</b>	<b>190</b>		27	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Sodium</b>	<b>490</b>		54	7.1	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Vanadium</b>	<b>15</b>		0.27	0.079	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1
<b>Zinc</b>	<b>53</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	03/09/16 15:56	03/10/16 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:06	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		03/10/16 20:00	03/12/16 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>47</b>		18	9.6	ug/Kg	☼	03/09/16 14:00	03/11/16 12:36	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			03/09/16 14:51	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

*Per contract*  
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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped:

Hand Delivered:

### Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air

SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434

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

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH	
Project Location/State		Sampler									
Lab ID	MS/MSD	Sample ID	Date	Time							
Weston Solutions		02056-04-040-0030		7	7	7	7	7			
IDOT 040-IL Route 113											
Brandwood Dr		D. W. Right									
u. Aheny-skabic											
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

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

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

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

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

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

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

225-407 S. Comet Drive (ISGS Site No. 2948-6)

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

County: Will Township: \_\_\_\_\_

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

Latitude: 41.260464327 Longitude: -88.204240492

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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



Project Name: FAU 327: Illinois Route 113

Latitude: 41.260464327 Longitude: -88.204240492

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 RC-1 THROUGH RC-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-6. 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: 500-108244-1.  
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:

5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2948-6**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	RC-1(0-1)-030216	RC-2(0-1)-030216	RC-3(0-1)-030216	RC-4(0-1)-030216	RC-5(0-1)-030216	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	
Location ID	RC-1	RC-2	RC-3	RC-4	RC-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-6	2948-6	2948-6	2948-6	2948-6	
<b>Parameter</b>						
Laboratory pH	8.08	8.38	7.98	6.88	8.29	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected					
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	14 J	45	5 J	ND	31 J	900 / 1100 / 1800
Benzo(a)pyrene	17 J	63 J	ND	ND	38	90 / 1300 / 2100
Benzo(b)fluoranthene	23 J	120 J	7.9 J	ND	64	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	13 J	30 J	ND	ND	17 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	2.2 J	3.1 J	0.88 J	1.6 J	2.4 J	11.3 / 13
Barium, Total	11	22	8.8	5.9	21	1500
Beryllium, Total	0.16 J	0.45	0.17 J	0.12 J	0.26	22
Cadmium, Total	0.09 J	0.85	0.051 J	ND	0.53	5.2
Calcium, Total	1100 J-	32000 J-	4000 J-	760 J-	18000 J-	---
Chromium, Total	4.7 B	6.1 B	5.2 B	5 B	5 B	21
Iron, Total	5300 J	6400 J	3400 J	3200 J	5000 J	15000 / 15900
Lead, Total	6 J	44 J	7.1 J	4.2 J	36 J	107
Manganese, Total	25 J	150 J	22 J	21 J	65 J	630 / 636
Mercury, Total	0.021	0.029	0.022	0.017	0.024	0.89
Nickel, Total	4.3 B	7.3 B	4.2 B	4.2 B	5 B	100
Potassium, Total	150 B	320 B	170 B	140 B	230 B	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	27	110	16	13	93	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.14 J	0.17 J	0.11 J	0.058 J	0.13 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	0.0046 J	ND	ND	0.0037 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Iron, TCLP	0.28 J	ND	0.45	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.022	0.0075
Manganese, TCLP	0.12	1.1	0.24	0.035	0.65	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.13 J	0.48 J	0.11 J	0.88	0.32 J	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.018 J	0.014 J	ND	ND	ND	0.05
Barium, SPLP	0.14 J	0.11 J	0.073 J	ND	0.085 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.043	0.027	0.03	0.013 J	0.023 J	0.1
Iron, SPLP	39 J+	23 J+	18 J+	7.1 J+	21 J+	5
Lead, SPLP	0.053	0.14	0.041	0.012	0.16	0.0075
Manganese, SPLP	0.094	0.34	0.058	0.027	0.19	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.038	0.024 J	0.021 J	ND	0.019 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-6**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

- 1
- 2
- 3
- 4
- 5
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- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-1(0-1)-030216**

**Lab Sample ID: 500-108244-3**

**Date Collected: 03/02/16 08:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 23:52	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 23:52	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/03/16 23:52	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 23:52	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 23:52	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/03/16 23:52	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 23:52	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 23:52	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/03/16 23:52	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/03/16 23:52	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 23:52	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/03/16 23:52	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 23:52	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/03/16 23:52	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/03/16 23:52	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 23:52	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 23:52	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/03/16 23:52	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 23:52	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 23:52	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 23:52	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 23:52	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 23:52	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 23:52	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 23:52	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 23:52	1
Dibromofluoromethane	101		75 - 120		03/03/16 23:52	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/03/16 23:52	1
Toluene-d8 (Surr)	104		75 - 122		03/03/16 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-1(0-1)-030216**

**Lab Sample ID: 500-108244-3**

**Date Collected: 03/02/16 08:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,4-Dinitrophenol	<750	F1	750	660	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Benzo[a]anthracene</b>	<b>14</b>	<b>J</b>	37	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Benzo[a]pyrene</b>	<b>17</b>	<b>J</b>	37	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Benzo[b]fluoranthene</b>	<b>23</b>	<b>J</b>	37	8.0	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Benzo[g,h,i]perylene</b>	<b>12</b>	<b>J F1</b>	37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>560</b>		190	68	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Carbazole	<190		190	93	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Chrysene</b>	<b>18</b>	<b>J</b>	37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Fluoranthene</b>	<b>28</b>	<b>J</b>	37	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-1(0-1)-030216**

**Lab Sample ID: 500-108244-3**

**Date Collected: 03/02/16 08:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.0**

**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>13</b>	<b>J F1</b>	37	9.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Phenanthrene</b>	<b>39</b>		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
Phenol	<190		190	83	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Pyrene</b>	<b>23</b>	<b>J</b>	37	7.4	ug/Kg	☼	03/05/16 16:34	03/06/16 21:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	64		35 - 137				03/05/16 16:34	03/06/16 21:15	1
<i>2-Fluorobiphenyl</i>	83		25 - 119				03/05/16 16:34	03/06/16 21:15	1
<i>2-Fluorophenol</i>	87		25 - 110				03/05/16 16:34	03/06/16 21:15	1
<i>Nitrobenzene-d5</i>	75		25 - 115				03/05/16 16:34	03/06/16 21:15	1
<i>Phenol-d5</i>	86		31 - 110				03/05/16 16:34	03/06/16 21:15	1
<i>Terphenyl-d14</i>	84		36 - 134				03/05/16 16:34	03/06/16 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 10:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 10:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 10:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
<b>Iron</b>	<b>0.28</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 10:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 10:39	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 10:39	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:39	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 14:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 14:42	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Iron</b>	<b>39</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Lead</b>	<b>0.053</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Manganese</b>	<b>0.094</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 14:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-1(0-1)-030216**

**Lab Sample ID: 500-108244-3**

**Date Collected: 03/02/16 08:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.0**

**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		03/06/16 11:11	03/08/16 14:42	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 14:42	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	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Arsenic</b>	<b>2.2</b>		0.55	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Barium</b>	<b>11</b>		0.55	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Cadmium</b>	<b>0.090</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Calcium</b>	<b>1100</b>		11	3.6	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Chromium</b>	<b>4.7</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Cobalt</b>	<b>1.4</b>		0.28	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Copper</b>	<b>2.2</b>		0.55	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Iron</b>	<b>5300</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Lead</b>	<b>6.0</b>		0.28	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Magnesium</b>	<b>830</b>		5.5	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Manganese</b>	<b>25</b>		0.55	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Nickel</b>	<b>4.3</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Potassium</b>	<b>150</b>	<b>B</b>	28	4.5	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Sodium</b>	<b>81</b>	<b>B</b>	55	7.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Vanadium</b>	<b>8.6</b>		0.28	0.081	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	1
<b>Zinc</b>	<b>27</b>		1.1	0.35	mg/Kg	☼	03/03/16 15:37	03/04/16 16:42	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		03/05/16 16:15	03/07/16 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>21</b>		17	8.8	ug/Kg	☼	03/03/16 16:15	03/04/16 10:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			03/03/16 14:01	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-2(0-1)-030216**

**Lab Sample ID: 500-108244-4**

**Date Collected: 03/02/16 09:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/04/16 00:17	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:17	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/04/16 00:17	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:17	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:17	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/04/16 00:17	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 00:17	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:17	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/04/16 00:17	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/04/16 00:17	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:17	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 00:17	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:17	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/04/16 00:17	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/04/16 00:17	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:17	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/04/16 00:17	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:17	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/04/16 00:17	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:17	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:17	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 00:17	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:17	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:17	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/04/16 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122		03/04/16 00:17	1
Dibromofluoromethane	100		75 - 120		03/04/16 00:17	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/04/16 00:17	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-2(0-1)-030216**

**Lab Sample ID: 500-108244-4**

**Date Collected: 03/02/16 09:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	87	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Acenaphthylene</b>	<b>6.7</b>	<b>J</b>	38	5.0	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Anthracene</b>	<b>9.6</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Benzo[a]anthracene</b>	<b>45</b>		38	5.1	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Benzo[a]pyrene</b>	<b>63</b>	*	38	7.4	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Benzo[b]fluoranthene</b>	<b>120</b>	*	38	8.3	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Benzo[g,h,i]perylene</b>	<b>28</b>	<b>J *</b>	38	12	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>	*	38	11	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>560</b>		190	70	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Carbazole	<190		190	96	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Chrysene</b>	<b>76</b>		38	10	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Fluoranthene</b>	<b>92</b>		38	7.1	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-2(0-1)-030216**

**Lab Sample ID: 500-108244-4**

**Date Collected: 03/02/16 09:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>30</b>	<b>J*</b>	38	9.9	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Isophorone	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Phenanthrene</b>	<b>180</b>		38	5.3	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Phenol	<190		190	85	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
<b>Pyrene</b>	<b>110</b>		38	7.6	ug/Kg	☼	03/05/16 16:34	03/08/16 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137				03/05/16 16:34	03/08/16 03:07	1
2-Fluorobiphenyl	70		25 - 119				03/05/16 16:34	03/08/16 03:07	1
2-Fluorophenol	78		25 - 110				03/05/16 16:34	03/08/16 03:07	1
Nitrobenzene-d5	68		25 - 115				03/05/16 16:34	03/08/16 03:07	1
Phenol-d5	76		31 - 110				03/05/16 16:34	03/08/16 03:07	1
Terphenyl-d14	107		36 - 134				03/05/16 16:34	03/08/16 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 10:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 10:48	1
<b>Cadmium</b>	<b>0.0046</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 10:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 10:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 10:48	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 10:48	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 10:48	1
<b>Zinc</b>	<b>0.48</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 10:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 14:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 14:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Chromium</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Iron</b>	<b>23</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 14:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-2(0-1)-030216**

**Lab Sample ID: 500-108244-4**

**Date Collected: 03/02/16 09:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**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		03/06/16 11:11	03/08/16 14:49	1
<b>Zinc</b>	<b>0.54</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 14:49	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	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Arsenic</b>	<b>3.1</b>		0.53	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Barium</b>	<b>22</b>		0.53	0.098	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Beryllium</b>	<b>0.45</b>		0.21	0.046	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Cadmium</b>	<b>0.85</b>		0.11	0.031	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Calcium</b>	<b>32000</b>		11	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Chromium</b>	<b>6.1</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Cobalt</b>	<b>2.6</b>		0.27	0.060	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Copper</b>	<b>6.4</b>		0.53	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Iron</b>	<b>6400</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Lead</b>	<b>44</b>		0.27	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Magnesium</b>	<b>19000</b>		5.3	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Manganese</b>	<b>150</b>		0.53	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Nickel</b>	<b>7.3</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Potassium</b>	<b>320</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Sodium</b>	<b>350</b>	<b>B</b>	53	7.0	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Vanadium</b>	<b>9.0</b>		0.27	0.078	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	1
<b>Zinc</b>	<b>110</b>		1.1	0.34	mg/Kg	☼	03/03/16 15:37	03/04/16 16:46	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		03/05/16 16:15	03/07/16 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>29</b>		18	9.3	ug/Kg	☼	03/03/16 16:15	03/04/16 10:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.38</b>		0.200	0.200	SU			03/03/16 14:09	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-3(0-1)-030216**

**Lab Sample ID: 500-108244-5**

**Date Collected: 03/02/16 09:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/04/16 00:42	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:42	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/04/16 00:42	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:42	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:42	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/04/16 00:42	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 00:42	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:42	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/04/16 00:42	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/04/16 00:42	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 00:42	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 00:42	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:42	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/04/16 00:42	1
Methylene Chloride	<5.8		5.8	4.3	ug/Kg	☼		03/04/16 00:42	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/04/16 00:42	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:42	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/04/16 00:42	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 00:42	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/04/16 00:42	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:42	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 00:42	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 00:42	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 00:42	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 00:42	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/04/16 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/04/16 00:42	1
Dibromofluoromethane	102		75 - 120		03/04/16 00:42	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/04/16 00:42	1
Toluene-d8 (Surr)	108		75 - 122		03/04/16 00:42	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	40	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-3(0-1)-030216**

**Lab Sample ID: 500-108244-5**

**Date Collected: 03/02/16 09:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Acenaphthylene	<37		37	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Anthracene	<37		37	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Benzo[a]anthracene</b>	<b>5.0 J</b>		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Benzo[b]fluoranthene</b>	<b>7.9 J</b>		37	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>170 J</b>		180	67	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Carbazole	<180		180	92	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Chrysene	<37		37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Fluoranthene</b>	<b>7.9 J</b>		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-3(0-1)-030216**

**Lab Sample ID: 500-108244-5**

**Date Collected: 03/02/16 09:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.5	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Phenanthrene</b>	<b>24</b>	<b>J</b>	37	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Phenol	<180		180	82	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
<b>Pyrene</b>	<b>8.9</b>	<b>J</b>	37	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				03/05/16 16:34	03/06/16 16:52	1
2-Fluorobiphenyl	73		25 - 119				03/05/16 16:34	03/06/16 16:52	1
2-Fluorophenol	83		25 - 110				03/05/16 16:34	03/06/16 16:52	1
Nitrobenzene-d5	68		25 - 115				03/05/16 16:34	03/06/16 16:52	1
Phenol-d5	82		31 - 110				03/05/16 16:34	03/06/16 16:52	1
Terphenyl-d14	82		36 - 134				03/05/16 16:34	03/06/16 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
<b>Iron</b>	<b>0.45</b>		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:17	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:17	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:17	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:17	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		03/06/16 11:11	03/08/16 14:56	1
<b>Barium</b>	<b>0.073</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 14:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 14:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Chromium</b>	<b>0.030</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Iron</b>	<b>18</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Lead</b>	<b>0.041</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Manganese</b>	<b>0.058</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:56	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 14:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 14:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-3(0-1)-030216**

**Lab Sample ID: 500-108244-5**

Date Collected: 03/02/16 09:20

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.9

**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		03/06/16 11:11	03/08/16 14:56	1
<b>Zinc</b>	<b>0.34</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 14:56	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	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Arsenic</b>	<b>0.88</b>		0.55	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Barium</b>	<b>8.8</b>		0.55	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Cadmium</b>	<b>0.051</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Calcium</b>	<b>4000</b>		11	3.6	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Chromium</b>	<b>5.2</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Cobalt</b>	<b>1.6</b>		0.28	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Copper</b>	<b>1.4</b>		0.55	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Iron</b>	<b>3400</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Lead</b>	<b>7.1</b>		0.28	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Magnesium</b>	<b>2500</b>		5.5	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Manganese</b>	<b>22</b>		0.55	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Nickel</b>	<b>4.2</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Potassium</b>	<b>170</b>	<b>B</b>	28	4.5	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	55	7.3	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Vanadium</b>	<b>7.5</b>		0.28	0.081	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	1
<b>Zinc</b>	<b>16</b>		1.1	0.35	mg/Kg	☼	03/03/16 15:37	03/04/16 16:59	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		03/05/16 16:15	03/07/16 21:45	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		03/05/16 16:15	03/09/16 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		18	9.2	ug/Kg	☼	03/03/16 16:15	03/04/16 10:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			03/03/16 14:17	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-4(0-1)-030216**

**Lab Sample ID: 500-108244-6**

**Date Collected: 03/02/16 09:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/04/16 01:07	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 01:07	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/04/16 01:07	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 01:07	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 01:07	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 01:07	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/04/16 01:07	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/04/16 01:07	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/04/16 01:07	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 01:07	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 01:07	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 01:07	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 01:07	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/04/16 01:07	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/04/16 01:07	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 01:07	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/04/16 01:07	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 01:07	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/04/16 01:07	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 01:07	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 01:07	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 01:07	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 01:07	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 01:07	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 01:07	1
Dibromofluoromethane	100		75 - 120		03/04/16 01:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/04/16 01:07	1
Toluene-d8 (Surr)	107		75 - 122		03/04/16 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-4(0-1)-030216**

**Lab Sample ID: 500-108244-6**

**Date Collected: 03/02/16 09:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.0**

**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	☼	03/05/16 16:34	03/06/16 17:22	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Carbazole	<180		180	91	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-4(0-1)-030216**

**Lab Sample ID: 500-108244-6**

**Date Collected: 03/02/16 09:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.4	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Phenol	<180		180	81	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/05/16 16:34	03/06/16 17:22	1
2-Fluorobiphenyl	67		25 - 119				03/05/16 16:34	03/06/16 17:22	1
2-Fluorophenol	74		25 - 110				03/05/16 16:34	03/06/16 17:22	1
Nitrobenzene-d5	61		25 - 115				03/05/16 16:34	03/06/16 17:22	1
Phenol-d5	74		31 - 110				03/05/16 16:34	03/06/16 17:22	1
Terphenyl-d14	75		36 - 134				03/05/16 16:34	03/06/16 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
<b>Barium</b>	<b>0.058</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:22	1
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:22	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:22	1
<b>Zinc</b>	<b>0.88</b>		0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:22	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		03/06/16 11:11	03/08/16 15:39	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:11	03/08/16 15:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 15:39	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 15:39	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:39	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:39	1
<b>Iron</b>	<b>7.1</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 15:39	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 15:39	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 15:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-4(0-1)-030216**

**Lab Sample ID: 500-108244-6**

**Date Collected: 03/02/16 09:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.0**

**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		03/06/16 11:11	03/08/16 15:39	1
<b>Zinc</b>	<b>0.29</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 15:39	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	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Arsenic</b>	<b>1.6</b>		0.54	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Barium</b>	<b>5.9</b>		0.54	0.099	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Beryllium</b>	<b>0.12</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Calcium</b>	<b>760</b>		11	3.5	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Chromium</b>	<b>5.0</b>	<b>B</b>	0.54	0.093	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Cobalt</b>	<b>1.5</b>		0.27	0.061	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Copper</b>	<b>2.1</b>		0.54	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Iron</b>	<b>3200</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Lead</b>	<b>4.2</b>		0.27	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Magnesium</b>	<b>690</b>		5.4	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Manganese</b>	<b>21</b>		0.54	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Nickel</b>	<b>4.2</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Potassium</b>	<b>140</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	54	7.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Vanadium</b>	<b>7.1</b>		0.27	0.079	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1
<b>Zinc</b>	<b>13</b>		1.1	0.34	mg/Kg	☼	03/03/16 15:37	03/04/16 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 21:47	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		03/05/16 16:15	03/07/16 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>17</b>		17	9.1	ug/Kg	☼	03/03/16 16:15	03/04/16 10:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.88</b>		0.200	0.200	SU			03/03/16 14:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-5(0-1)-030216**

**Lab Sample ID: 500-108244-7**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/04/16 01:32	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
Bromodichloromethane	<5.7		5.7	0.95	ug/Kg	☼		03/04/16 01:32	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 01:32	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 01:32	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/04/16 01:32	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 01:32	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 01:32	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/04/16 01:32	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/04/16 01:32	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 01:32	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 01:32	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 01:32	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 01:32	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/04/16 01:32	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/04/16 01:32	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 01:32	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/04/16 01:32	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 01:32	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 01:32	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 01:32	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 01:32	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 01:32	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 01:32	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 01:32	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/04/16 01:32	1
Dibromofluoromethane	102		75 - 120		03/04/16 01:32	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/04/16 01:32	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 01:32	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	☼	03/05/16 16:34	03/07/16 01:09	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-5(0-1)-030216**

**Lab Sample ID: 500-108244-7**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<360		360	83	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Acenaphthylene</b>	<b>8.1</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Anthracene</b>	<b>7.4</b>	<b>J</b>	36	6.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Benzo[a]anthracene</b>	<b>31</b>	<b>J</b>	36	4.9	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Benzo[a]pyrene</b>	<b>38</b>		36	7.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Benzo[b]fluoranthene</b>	<b>64</b>		36	7.9	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Benzo[k]fluoranthene</b>	<b>15</b>	<b>J</b>	36	11	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Carbazole	<180		180	91	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Chrysene</b>	<b>48</b>		36	9.9	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Fluoranthene</b>	<b>66</b>		36	6.8	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Hexachlorobenzene	<74		74	8.4	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-5(0-1)-030216**

**Lab Sample ID: 500-108244-7**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>17</b>	<b>J</b>	36	9.4	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Pentachlorophenol	<740		740	580	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Phenanthrene</b>	<b>150</b>		36	5.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
Phenol	<180		180	81	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	1
<b>Pyrene</b>	<b>61</b>		36	7.2	ug/Kg	☼	03/05/16 16:34	03/07/16 01:09	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	77		35 - 137				03/05/16 16:34	03/07/16 01:09	1
2-Fluorobiphenyl	78		25 - 119				03/05/16 16:34	03/07/16 01:09	1
2-Fluorophenol	83		25 - 110				03/05/16 16:34	03/07/16 01:09	1
Nitrobenzene-d5	69		25 - 115				03/05/16 16:34	03/07/16 01:09	1
Phenol-d5	82		31 - 110				03/05/16 16:34	03/07/16 01:09	1
Terphenyl-d14	92		36 - 134				03/05/16 16:34	03/07/16 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:27	1
<b>Cadmium</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:27	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:27	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:27	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:27	1
<b>Zinc</b>	<b>0.32</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Barium</b>	<b>0.085</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 15:45	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Chromium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Iron</b>	<b>21</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 15:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: RC-5(0-1)-030216**

**Lab Sample ID: 500-108244-7**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.4**

**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		03/06/16 11:11	03/08/16 15:45	1
<b>Zinc</b>	<b>0.59</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 15:45	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	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Arsenic</b>	<b>2.4</b>		0.53	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Barium</b>	<b>21</b>		0.53	0.097	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Beryllium</b>	<b>0.26</b>		0.21	0.046	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Cadmium</b>	<b>0.53</b>		0.11	0.031	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Calcium</b>	<b>18000</b>		11	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Chromium</b>	<b>5.0</b>	<b>B</b>	0.53	0.091	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Cobalt</b>	<b>1.5</b>		0.27	0.060	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Copper</b>	<b>4.1</b>		0.53	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Iron</b>	<b>5000</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Lead</b>	<b>36</b>		0.27	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Magnesium</b>	<b>9900</b>		5.3	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Manganese</b>	<b>65</b>		0.53	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Nickel</b>	<b>5.0</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Potassium</b>	<b>230</b>	<b>B</b>	27	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Sodium</b>	<b>300</b>	<b>B</b>	53	7.0	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Vanadium</b>	<b>8.1</b>		0.27	0.077	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	1
<b>Zinc</b>	<b>93</b>		1.1	0.34	mg/Kg	☼	03/03/16 15:37	03/04/16 17:08	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		03/05/16 16:15	03/07/16 21:49	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		03/05/16 16:15	03/07/16 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>24</b>		17	8.9	ug/Kg	☼	03/03/16 16:15	03/04/16 10:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.29</b>		0.200	0.200	SU			03/03/16 14:33	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total metals		TCLP/SPLP metals		PH							
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>																	
Sampler		Date		Time															
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH							Comments	
<u>1</u>		<u>R2-1(0-1)-030216</u>	<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>R2-1(0-1)-030216D</u>		<u>0840</u>															
<u>3</u>		<u>RC-1(0-1)-030216</u>		<u>0855</u>															
<u>4</u>		<u>RC-2(0-1)-030216</u>		<u>0905</u>															
<u>5</u>		<u>RC-3(0-1)-030216</u>		<u>0920</u>															
<u>6</u>		<u>RC-4(0-1)-030216</u>		<u>0940</u>															
<u>7</u>		<u>RC-5(0-1)-030216</u>		<u>0950</u>															
<u>8</u>		<u>BDS-1(0-1)-030216</u>		<u>1000</u>															
<u>9</u>		<u>BDS-2(0-1)-030216</u>		<u>1010</u>															
<u>10</u>		<u>BDS-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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:

# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter										Preservative Key	
<u>Western</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments				
<u>IDOT-040</u>				Date	Time												
Project Location/State		Lab PM															
<u>Braidwood &amp; Cule Park / IL</u>		<u>D. Wright</u>															
Sampler																	
<u>T. Walls</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments					
<u>11</u>		<u>BDS-4(0-1)-030216</u>	<u>3-2-16</u>	<u>1035</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>12</u>		<u>BDS-4(0-1)-030216D</u>		<u>1035</u>													
<u>13</u>		<u>BDS-5(0-1)-030216</u>		<u>1050</u>													
<u>14</u>		<u>WL9-1(0-1)-030216</u>		<u>1100</u>													
<u>15</u>		<u>WL9-2(0-1)-030216</u>		<u>1115</u>													
<u>16</u>		<u>WL9-3(0-1)-030216</u>		<u>1125</u>													
<u>17</u>		<u>R10-1(0-1)-030216</u>		<u>1135</u>													
<u>18</u>		<u>F11-1(0-1)-030216</u>		<u>1235</u>													
<u>19</u>		<u>F11-2(0-1)-030216</u>		<u>1245</u>													
<u>20</u>		<u>F11-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1250</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
33915 IL 53 (ISGS Site No. 2948-7)

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

County: Will Township: Custer

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

Latitude: 41.260810662 Longitude: -88.190903200  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260810662 Longitude: -88.190903200

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 BR7-1 THROUGH BR7-12 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-7. SEE FIGURES 3-1/3-2/3-3 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 REPORTS - JOB ID: 500-108392-1 AND 500-108434-1. ALSO SEE FIGURES 4-1, 4-2, AND 4-3 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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-7**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	BR7-1(0-1)-030416	BR7-2(0-1)-030416	BR7-3(0-1)-030416	BR7-4(0-1)-030416	BR7-5(0-1)-030416	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	BR7-1	BR7-2	BR7-3	BR7-4	BR7-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-7	2948-7	2948-7	2948-7	2948-7	
<b>Parameter</b>						
Laboratory pH	7.46	6.77	8.7	7.87	8.73	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected					
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	9.7 J	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	7.9 J	ND	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	11 J	ND	ND	ND	ND	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	2.7	1.3	0.98	1.6	2.6	11.3 / 13
Barium, Total	18 J	9 J	9.8 J	8.7 J	16 J	1500
Beryllium, Total	0.27	0.13 J	0.078 J	0.11 J	0.19 J	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	13000 J	440 J	340 J	450 J	1800 J	---
Chromium, Total	5.4 B	5.8 B	4.3 B	4.3 B	6.3 B	21
Iron, Total	6200 J-	5000 J-	3400 J-	3400 J-	6300 J-	15000 / 15900
Lead, Total	12	3.2	2.5	3.8	3.9	107
Manganese, Total	88 J	32 J	32 J	20 J	25 J	630 / 636
Mercury, Total	0.027	0.013 J	0.026	ND	0.013 J	0.89
Nickel, Total	6	5.2	3.8	4.1	4.5	100
Potassium, Total	330	200	170	190	160	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	52	15	17	12	14	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.14 J	0.21 J	0.16 J	0.16 J	0.24 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0025 J	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	0.34 J	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.54	0.035	0.057	0.031	0.24	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.77 B	0.43 J	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.011 J	ND	ND	ND	0.011 J	0.05
Barium, SPLP	0.23 J	0.14 J	0.17 J	0.15 J	0.22 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.022 J	ND	0.013 J	ND	0.025	0.1
Iron, SPLP	17 J-	0.4 R	7 J-	0.4 R	22 J-	5
Lead, SPLP	0.034	ND	ND	ND	0.0091	0.0075
Manganese, SPLP	0.2	ND	0.045	ND	0.051	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.018 J	ND	0.01 J	ND	0.018 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-7**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	BR7-6(0-1)-030416	BR7-6(0-1)-030416D	BR7-7(0-1)-030716	BR7-8(0-1)-030716	BR7-9(0-1)-030716	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	3/7/2016	3/7/2016	3/7/2016	
Location ID	BR7-6	BR7-6	BR7-7	BR7-8	BR7-9	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-7	2948-7	2948-7	2948-7	2948-7	
<b>Parameter</b>						
Laboratory pH	7.9	7.39	8.35	7.93	8.1	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected					
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	75	82	19 J	90	11 J	900 / 1100 / 1800
Benzo(a)pyrene	74	87	11 J	100 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	110	150	18 J	150 J	ND	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	30 J	42	ND	44 J	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	13	8.5	5.2	2.5	3.6	11.3 / 13
Barium, Total	25 J	23 J	18	43	18	1500
Beryllium, Total	0.69	0.45	0.74	0.49	0.48	22
Cadmium, Total	ND	0.33 B	0.56	0.34	0.41	5.2
Calcium, Total	11000 J	39000 J	11000 J	25000 J	2200 J	---
Chromium, Total	8 B	7.1 B	6.5 B	ND	ND	21
Iron, Total	15000 J-	12000 J-	9300 J+	5700 J+	5900 J+	15000 / 15900
Lead, Total	54	41	9.8 J	53 J	8.1 J	107
Manganese, Total	130 J	170 J	48 J	96 J	39 J	630 / 636
Mercury, Total	0.033	0.035	0.018 J	ND	0.057 J	0.89
Nickel, Total	17 J	9.3 J	8.9 B	5.4 B	5.9 B	100
Potassium, Total	730	520	260 J+	330 J+	210 J+	---
Selenium, Total	0.85	0.55	ND	ND	0.38 J	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	63	73	89 B	57 B	63 B	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.25 J	0.24 J	0.067 J	0.16 J	0.11 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0021 J	0.0026 J	0.0042 J	0.0034 J	0.0034 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.59	0.58	0.32	0.69	0.21	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.9 B	0.3 J	1.3	0.24 J	0.46 J	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.19 J	0.18 J	0.053 J	0.092 J	0.082 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.012 J	0.015 J	0.012 J	0.015 J	0.011 J	0.1
Iron, SPLP	8.1 J-	11 J-	9.2	10	6.1	5
Lead, SPLP	0.026	0.035	0.01	0.073	0.012	0.0075
Manganese, SPLP	0.069	0.086	0.029	0.11	0.034	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.012 J	ND	0.011 J	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	0.19 J	0.23 J	0.21 J	5



**Summary Table of ISGS Site No. 2948-7**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	BR7-10(0-1)-030716	BR7-11(0-1)-030716	BR7-12(0-1)-030716	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	3/7/2016	
Location ID	BR7-10	BR7-11	BR7-12	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-7	2948-7	2948-7	
<b>Parameter</b>				
Laboratory pH	7.65	7.61	7.48	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected			
<b>SVOCs (ug/kg)</b>				
Benzo(a)anthracene	17 J	35 J	42	900 / 1100 / 1800
Benzo(a)pyrene	18 J	35 J	46 J	90 / 1300 / 2100
Benzo(b)fluoranthene	36 J	59 J	80 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	ND	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	1.4	2.7	3.1	11.3 / 13
Barium, Total	7.9	19	21	1500
Beryllium, Total	0.1 J	0.53	0.43	22
Cadmium, Total	0.13	0.59	0.55	5.2
Calcium, Total	4800 J	8800 J	53000 J	---
Chromium, Total	ND	ND	ND	21
Iron, Total	2100 J+	5400 J+	5600 J+	15000 / 15900
Lead, Total	8.9 J	27 J	28 J	107
Manganese, Total	22 J	52 J	110 J	630 / 636
Mercury, Total	0.047 J	0.013 J	0.097 J	0.89
Nickel, Total	2.2 B	6 B	5.9 B	100
Potassium, Total	110 J+	240 J+	300 J+	---
Selenium, Total	ND	0.33 J	0.36 J	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	12 B	70 B	84 B	5100
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.086 J	0.11 J	0.12 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.0031 J	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	0.014	ND	ND	0.0075
Manganese, TCLP	0.48	0.45	0.52	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	1.1	0.39 J	0.71	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	ND	ND	ND	0.05
Barium, SPLP	ND	0.064 J	0.082 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	ND	0.01 J	0.012 J	0.1
Iron, SPLP	2.7	5.8	9.3	5
Lead, SPLP	0.017	0.032	0.036	0.0075
Manganese, SPLP	0.027	0.058	0.089	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	ND	ND	ND	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.098 J	0.19 J	0.73	5

**Summary Table of ISGS Site No. 2948-7**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108392-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 8:18:15 AM

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

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

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

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

- 1
- 2
- 3
- 4
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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-1(0-1)-030416**

**Lab Sample ID: 500-108392-6**

**Date Collected: 03/04/16 14:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 89.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/07/16 13:42	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 13:42	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/07/16 13:42	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 13:42	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 13:42	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 13:42	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 13:42	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/07/16 13:42	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 13:42	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 13:42	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/07/16 13:42	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 13:42	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/07/16 13:42	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 13:42	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 13:42	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 13:42	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 13:42	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/07/16 13:42	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/07/16 13:42	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 13:42	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 13:42	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/07/16 13:42	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 13:42	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/07/16 13:42	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 13:42	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 13:42	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 13:42	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 13:42	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 13:42	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 13:42	1
Dibromofluoromethane	104		75 - 120		03/07/16 13:42	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/07/16 13:42	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 13:42	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	☼	03/07/16 16:59	03/09/16 00:04	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-1(0-1)-030416**

**Lab Sample ID: 500-108392-6**

**Date Collected: 03/04/16 14:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 89.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Benzo[a]anthracene</b>	<b>9.7 J</b>		35	4.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Benzo[a]pyrene</b>	<b>7.9 J</b>		35	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Benzo[b]fluoranthene</b>	<b>11 J</b>		35	7.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Carbazole	<180		180	89	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Chrysene</b>	<b>17 J</b>		35	9.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Dibenz(a,h)anthracene	<35		35	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Fluoranthene</b>	<b>21 J</b>		35	6.6	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-1(0-1)-030416**

**Lab Sample ID: 500-108392-6**

**Date Collected: 03/04/16 14:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 89.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	9.2	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Phenanthrene</b>	<b>65</b>		35	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
Phenol	<180		180	79	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1
<b>Pyrene</b>	<b>17 J</b>		35	7.1	ug/Kg	☼	03/07/16 16:59	03/09/16 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137	03/07/16 16:59	03/09/16 00:04	1
2-Fluorobiphenyl	78		25 - 119	03/07/16 16:59	03/09/16 00:04	1
2-Fluorophenol	82		25 - 110	03/07/16 16:59	03/09/16 00:04	1
Nitrobenzene-d5	80		25 - 115	03/07/16 16:59	03/09/16 00:04	1
Phenol-d5	82		31 - 110	03/07/16 16:59	03/09/16 00:04	1
Terphenyl-d14	97		36 - 134	03/07/16 16:59	03/09/16 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
<b>Barium</b>	<b>0.14 J</b>		0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:38	1
<b>Cadmium</b>	<b>0.0025 J</b>		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:38	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:38	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:38	1
<b>Zinc</b>	<b>0.77 B</b>		0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011 J</b>		0.050	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Barium</b>	<b>0.23 J</b>		0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Chromium</b>	<b>0.022 J</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Copper</b>	<b>0.017 J</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Iron</b>	<b>17</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Lead</b>	<b>0.034</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
<b>Nickel</b>	<b>0.018 J</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-1(0-1)-030416**

**Lab Sample ID: 500-108392-6**

**Date Collected: 03/04/16 14:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 89.5**

**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		03/10/16 08:54	03/11/16 07:09	1
<b>Zinc</b>	<b>0.50</b>	<b>^</b>	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:09	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Arsenic</b>	<b>2.7</b>		0.51	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Barium</b>	<b>18</b>		0.51	0.094	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Beryllium</b>	<b>0.27</b>		0.20	0.044	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Cadmium</b>	<b>0.28</b>	<b>B</b>	0.10	0.030	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Calcium</b>	<b>13000</b>	<b>B</b>	10	3.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Chromium</b>	<b>5.4</b>	<b>B</b>	0.51	0.088	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Cobalt</b>	<b>2.1</b>		0.26	0.058	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Copper</b>	<b>4.3</b>		0.51	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Iron</b>	<b>6200</b>		10	3.9	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Lead</b>	<b>12</b>		0.26	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Magnesium</b>	<b>7500</b>	<b>B</b>	5.1	2.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Manganese</b>	<b>88</b>	<b>B</b>	0.51	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Nickel</b>	<b>6.0</b>		0.51	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Potassium</b>	<b>330</b>		26	4.2	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Sodium</b>	<b>330</b>		51	6.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Vanadium</b>	<b>11</b>		0.26	0.075	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1
<b>Zinc</b>	<b>52</b>		1.0	0.32	mg/Kg	☼	03/06/16 09:51	03/07/16 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>27</b>		17	8.8	ug/Kg	☼	03/07/16 19:00	03/11/16 10:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.46</b>		0.200	0.200	SU			03/08/16 16:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-2(0-1)-030416**

**Lab Sample ID: 500-108392-7**

**Date Collected: 03/04/16 14:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 91.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/07/16 14:07	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 14:07	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/07/16 14:07	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 14:07	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 14:07	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 14:07	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/07/16 14:07	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 14:07	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/07/16 14:07	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/07/16 14:07	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 14:07	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 14:07	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 14:07	1
Ethylbenzene	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 14:07	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/07/16 14:07	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/07/16 14:07	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 14:07	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/07/16 14:07	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 14:07	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 14:07	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 14:07	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 14:07	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 14:07	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 14:07	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/07/16 14:07	1
Dibromofluoromethane	103		75 - 120		03/07/16 14:07	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 14:07	1
Toluene-d8 (Surr)	105		75 - 122		03/07/16 14:07	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	☼	03/07/16 16:59	03/09/16 00:29	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-2(0-1)-030416**

**Lab Sample ID: 500-108392-7**

**Date Collected: 03/04/16 14:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 91.8**

**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	82	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Chrysene	<36		36	9.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-2(0-1)-030416**

**Lab Sample ID: 500-108392-7**

**Date Collected: 03/04/16 14:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 91.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.3	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/07/16 16:59	03/09/16 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		35 - 137	03/07/16 16:59	03/09/16 00:29	1
2-Fluorobiphenyl	77		25 - 119	03/07/16 16:59	03/09/16 00:29	1
2-Fluorophenol	85		25 - 110	03/07/16 16:59	03/09/16 00:29	1
Nitrobenzene-d5	79		25 - 115	03/07/16 16:59	03/09/16 00:29	1
Phenol-d5	84		31 - 110	03/07/16 16:59	03/09/16 00:29	1
Terphenyl-d14	104		36 - 134	03/07/16 16:59	03/09/16 00:29	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		03/09/16 15:27	03/10/16 18:45	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:45	1
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:45	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:45	1
<b>Zinc</b>	<b>0.43</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:45	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		03/10/16 08:54	03/11/16 07:16	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:16	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:16	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:16	1
Manganese	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-2(0-1)-030416**

**Lab Sample ID: 500-108392-7**

Date Collected: 03/04/16 14:15

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 91.8

**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		03/10/16 08:54	03/11/16 07:16	1
Zinc	0.44	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:16	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Arsenic	1.3		0.50	0.23	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Barium	9.0		0.50	0.092	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Beryllium	0.13	J	0.20	0.044	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Cadmium	0.060	J B	0.10	0.029	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Calcium	440	B	10	3.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Chromium	5.8	B	0.50	0.087	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Cobalt	2.0		0.25	0.057	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Copper	2.2		0.50	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Iron	5000		10	3.9	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Lead	3.2		0.25	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Magnesium	580	B	5.0	2.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Manganese	32	B	0.50	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Nickel	5.2		0.50	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Potassium	200		25	4.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Sodium	280		50	6.7	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Vanadium	10		0.25	0.074	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	1
Zinc	15		1.0	0.32	mg/Kg	☼	03/06/16 09:51	03/07/16 23:37	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		03/09/16 17:30	03/11/16 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	16	8.2	ug/Kg	☼	03/07/16 19:00	03/11/16 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.77		0.200	0.200	SU			03/08/16 16:27	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-3(0-1)-030416**

**Lab Sample ID: 500-108392-8**

**Date Collected: 03/04/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 93.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/07/16 14:32	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/07/16 14:32	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/07/16 14:32	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/07/16 14:32	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/07/16 14:32	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/07/16 14:32	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/07/16 14:32	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/07/16 14:32	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/07/16 14:32	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/07/16 14:32	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/07/16 14:32	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/07/16 14:32	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/07/16 14:32	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
2-Hexanone	<5.3		5.3	1.7	ug/Kg	☼		03/07/16 14:32	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/07/16 14:32	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/07/16 14:32	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/07/16 14:32	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.85	ug/Kg	☼		03/07/16 14:32	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/07/16 14:32	1
Toluene	<5.3		5.3	1.9	ug/Kg	☼		03/07/16 14:32	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/07/16 14:32	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/07/16 14:32	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/07/16 14:32	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/07/16 14:32	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/07/16 14:32	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/07/16 14:32	1
Dibromofluoromethane	104		75 - 120		03/07/16 14:32	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/07/16 14:32	1
Toluene-d8 (Surr)	104		75 - 122		03/07/16 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-3(0-1)-030416**

**Lab Sample ID: 500-108392-8**

**Date Collected: 03/04/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 93.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	79	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Benzo[a]pyrene	<35		35	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Benzo[b]fluoranthene	<35		35	7.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Bis(2-ethylhexyl) phthalate	<170		170	64	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Carbazole	<170		170	87	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Chrysene	<35		35	9.5	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Dibenz(a,h)anthracene	<35		35	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Fluoranthene	<35		35	6.4	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-3(0-1)-030416**

**Lab Sample ID: 500-108392-8**

**Date Collected: 03/04/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 93.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	9.0	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Isophorone	<170		170	39	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
<b>Phenanthrene</b>	<b>7.9</b>	<b>J</b>	35	4.8	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Phenol	<170		170	77	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1
Pyrene	<35		35	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		35 - 137	03/07/16 16:59	03/09/16 00:54	1
2-Fluorobiphenyl	53		25 - 119	03/07/16 16:59	03/09/16 00:54	1
2-Fluorophenol	52		25 - 110	03/07/16 16:59	03/09/16 00:54	1
Nitrobenzene-d5	50		25 - 115	03/07/16 16:59	03/09/16 00:54	1
Phenol-d5	55		31 - 110	03/07/16 16:59	03/09/16 00:54	1
Terphenyl-d14	109		36 - 134	03/07/16 16:59	03/09/16 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
<b>Iron</b>	<b>0.34</b>	<b>J</b>	0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:51	1
<b>Manganese</b>	<b>0.057</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:51	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:51	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:51	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		03/10/16 08:54	03/11/16 07:28	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:28	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:28	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:28	1
<b>Iron</b>	<b>7.0</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:28	1
<b>Manganese</b>	<b>0.045</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:28	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-3(0-1)-030416**

**Lab Sample ID: 500-108392-8**

Date Collected: 03/04/16 14:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.9

**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		03/10/16 08:54	03/11/16 07:28	1
Zinc	0.32	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:28	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Arsenic	0.98		0.49	0.22	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Barium	9.8		0.49	0.089	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Beryllium	0.078	J	0.19	0.042	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Cadmium	0.11	B	0.097	0.028	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Calcium	340	B	9.7	3.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Chromium	4.3	B	0.49	0.084	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Cobalt	1.3		0.24	0.055	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Copper	1.3		0.49	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Iron	3400		9.7	3.7	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Lead	2.5		0.24	0.12	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Magnesium	430	B	4.9	2.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Manganese	32	B	0.49	0.096	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Nickel	3.8		0.49	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Potassium	170		24	4.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Sodium	180		49	6.4	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Vanadium	7.6		0.24	0.071	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1
Zinc	17		0.97	0.31	mg/Kg	☼	03/06/16 09:51	03/07/16 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		17	9.1	ug/Kg	☼	03/07/16 19:00	03/11/16 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			03/08/16 16:29	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-4(0-1)-030416**

**Lab Sample ID: 500-108392-9**

**Date Collected: 03/04/16 14:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/07/16 14:57	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 14:57	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 14:57	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 14:57	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 14:57	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 14:57	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 14:57	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 14:57	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 14:57	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 14:57	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 14:57	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 14:57	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 14:57	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 14:57	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 14:57	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 14:57	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 14:57	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 14:57	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 14:57	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 14:57	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 14:57	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 14:57	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 14:57	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 14:57	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 14:57	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 14:57	1
Dibromofluoromethane	104		75 - 120		03/07/16 14:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/07/16 14:57	1
Toluene-d8 (Surr)	105		75 - 122		03/07/16 14:57	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	☼	03/07/16 16:59	03/09/16 01:19	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-4(0-1)-030416**

**Lab Sample ID: 500-108392-9**

**Date Collected: 03/04/16 14:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**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	☼	03/07/16 16:59	03/09/16 01:19	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Benzo[b]fluoranthene	<37		37	7.9	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Carbazole	<190		190	92	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-4(0-1)-030416**

**Lab Sample ID: 500-108392-9**

**Date Collected: 03/04/16 14:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.5	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Isophorone	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Phenol	<190		190	82	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Pyrene	<37		37	7.3	ug/Kg	☼	03/07/16 16:59	03/09/16 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137				03/07/16 16:59	03/09/16 01:19	1
2-Fluorobiphenyl	72		25 - 119				03/07/16 16:59	03/09/16 01:19	1
2-Fluorophenol	86		25 - 110				03/07/16 16:59	03/09/16 01:19	1
Nitrobenzene-d5	83		25 - 115				03/07/16 16:59	03/09/16 01:19	1
Phenol-d5	77		31 - 110				03/07/16 16:59	03/09/16 01:19	1
Terphenyl-d14	82		36 - 134				03/07/16 16:59	03/09/16 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:58	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:58	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:58	1
<b>Zinc</b>	<b>0.27</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:34	1
Manganese	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-4(0-1)-030416**

**Lab Sample ID: 500-108392-9**

**Date Collected: 03/04/16 14:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**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		03/10/16 08:54	03/11/16 07:34	1
Zinc	0.20	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Arsenic	1.6		0.52	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Barium	8.7		0.52	0.095	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Beryllium	0.11	J	0.21	0.045	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Calcium	450	B	10	3.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Chromium	4.3	B	0.52	0.089	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Cobalt	1.4		0.26	0.058	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Copper	2.2		0.52	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Iron	3400		10	4.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Lead	3.8		0.26	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Magnesium	490	B	5.2	2.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Manganese	20	B	0.52	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Nickel	4.1		0.52	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Potassium	190		26	4.2	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Sodium	260		52	6.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Vanadium	6.3		0.26	0.076	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	1
Zinc	12		1.0	0.33	mg/Kg	☼	03/06/16 09:51	03/07/16 23:53	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		03/09/16 17:30	03/11/16 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.4	ug/Kg	☼	03/07/16 19:00	03/11/16 10:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			03/08/16 16:31	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-5(0-1)-030416**

**Lab Sample ID: 500-108392-10**

**Date Collected: 03/04/16 15:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/07/16 15:22	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 15:22	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/07/16 15:22	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 15:22	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 15:22	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 15:22	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/07/16 15:22	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/07/16 15:22	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/07/16 15:22	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 15:22	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 15:22	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 15:22	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 15:22	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/07/16 15:22	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/07/16 15:22	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 15:22	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/07/16 15:22	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 15:22	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 15:22	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 15:22	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 15:22	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 15:22	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 15:22	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 15:22	1
Dibromofluoromethane	104		75 - 120		03/07/16 15:22	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		03/07/16 15:22	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 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	40	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-5(0-1)-030416**

**Lab Sample ID: 500-108392-10**

**Date Collected: 03/04/16 15:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Carbazole	<190		190	94	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-5(0-1)-030416**

**Lab Sample ID: 500-108392-10**

**Date Collected: 03/04/16 15:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Pyrene	<37		37	7.4	ug/Kg	☼	03/07/16 16:59	03/09/16 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				03/07/16 16:59	03/09/16 01:44	1
2-Fluorobiphenyl	95		25 - 119				03/07/16 16:59	03/09/16 01:44	1
2-Fluorophenol	112	X	25 - 110				03/07/16 16:59	03/09/16 01:44	1
Nitrobenzene-d5	98		25 - 115				03/07/16 16:59	03/09/16 01:44	1
Phenol-d5	100		31 - 110				03/07/16 16:59	03/09/16 01:44	1
Terphenyl-d14	114		36 - 134				03/07/16 16:59	03/09/16 01:44	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		03/09/16 15:27	03/10/16 19:05	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:05	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:05	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:05	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:05	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		03/10/16 08:54	03/11/16 07:41	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Chromium</b>	<b>0.025</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Iron</b>	<b>22</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Lead</b>	<b>0.0091</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Manganese</b>	<b>0.051</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:41	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:41	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-5(0-1)-030416**

**Lab Sample ID: 500-108392-10**

Date Collected: 03/04/16 15:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 83.3

**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		03/10/16 08:54	03/11/16 07:41	1
Zinc	0.21	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:41	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	☼	03/06/16 09:51	03/07/16 23:57	1
Arsenic	2.6		0.59	0.27	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Barium	16		0.59	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Beryllium	0.19	J	0.24	0.051	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Calcium	1800	B	12	3.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Chromium	6.3	B	0.59	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Cobalt	1.7		0.29	0.066	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Copper	1.8		0.59	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Iron	6300		12	4.5	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Lead	3.9		0.29	0.15	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Magnesium	1200	B	5.9	2.4	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Manganese	25	B	0.59	0.12	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Nickel	4.5		0.59	0.16	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Potassium	160		29	4.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Sodium	310		59	7.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Vanadium	14		0.29	0.086	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1
Zinc	14		1.2	0.37	mg/Kg	☼	03/06/16 09:51	03/07/16 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 11:17	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		03/09/16 17:30	03/10/16 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	19	10	ug/Kg	☼	03/07/16 19:00	03/11/16 10:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.73		0.200	0.200	SU			03/08/16 16:34	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416**

**Lab Sample ID: 500-108392-11**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/07/16 15:47	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 15:47	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/07/16 15:47	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 15:47	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 15:47	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 15:47	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/07/16 15:47	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/07/16 15:47	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/07/16 15:47	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 15:47	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 15:47	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 15:47	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 15:47	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/07/16 15:47	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/07/16 15:47	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 15:47	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/07/16 15:47	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 15:47	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 15:47	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 15:47	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 15:47	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/07/16 15:47	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 15:47	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 15:47	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/07/16 15:47	1
Dibromofluoromethane	105		75 - 120		03/07/16 15:47	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 15:47	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 15:47	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	☼	03/07/16 16:59	03/10/16 17:24	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416**

**Lab Sample ID: 500-108392-11**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	39	7.2	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Acenaphthylene</b>	<b>14</b>	<b>J</b>	39	5.2	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Anthracene</b>	<b>24</b>	<b>J</b>	39	6.6	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Benzo[a]anthracene</b>	<b>75</b>		39	5.3	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Benzo[a]pyrene</b>	<b>74</b>		39	7.6	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		39	8.5	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Benzo[g,h,i]perylene</b>	<b>36</b>	<b>J</b>	39	13	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Benzo[k]fluoranthene</b>	<b>32</b>	<b>J</b>	39	12	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Carbazole	<200		200	98	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Chrysene</b>	<b>110</b>		39	11	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Fluoranthene</b>	<b>200</b>		39	7.3	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416**

**Lab Sample ID: 500-108392-11**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**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>30</b>	<b>J</b>	39	10	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Isophorone	<200		200	44	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Naphthalene</b>	<b>9.2</b>	<b>J</b>	39	6.1	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Phenanthrene</b>	<b>630</b>		39	5.5	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
Phenol	<200		200	87	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	1
<b>Pyrene</b>	<b>170</b>		39	7.8	ug/Kg	☼	03/07/16 16:59	03/10/16 17:24	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	37		35 - 137				03/07/16 16:59	03/10/16 17:24	1
2-Fluorobiphenyl	73		25 - 119				03/07/16 16:59	03/10/16 17:24	1
2-Fluorophenol	80		25 - 110				03/07/16 16:59	03/10/16 17:24	1
Nitrobenzene-d5	65		25 - 115				03/07/16 16:59	03/10/16 17:24	1
Phenol-d5	78		31 - 110				03/07/16 16:59	03/10/16 17:24	1
Terphenyl-d14	88		36 - 134				03/07/16 16:59	03/10/16 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:27	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:27	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:27	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:27	1
<b>Zinc</b>	<b>0.90</b>	<b>B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 08:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 08:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Iron</b>	<b>8.1</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Lead</b>	<b>0.026</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 08:34	1
<b>Manganese</b>	<b>0.069</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 08:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416**

**Lab Sample ID: 500-108392-11**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**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		03/10/16 08:54	03/11/16 08:34	1
<b>Zinc</b>	<b>0.22</b>	<b>J ^</b>	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 08:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Arsenic</b>	<b>13</b>		0.52	0.24	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Barium</b>	<b>25</b>		0.52	0.095	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Beryllium</b>	<b>0.69</b>		0.21	0.045	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.10	0.030	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	10	3.4	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Chromium</b>	<b>8.0</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Cobalt</b>	<b>6.0</b>		0.26	0.059	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Copper</b>	<b>24</b>		0.52	0.11	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Iron</b>	<b>15000</b>		10	4.0	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Lead</b>	<b>54</b>		0.26	0.13	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Magnesium</b>	<b>6800</b>	<b>B</b>	5.2	2.1	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Manganese</b>	<b>130</b>	<b>B</b>	0.52	0.10	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Nickel</b>	<b>17</b>		0.52	0.14	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Potassium</b>	<b>730</b>		26	4.2	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Selenium</b>	<b>0.85</b>		0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Sodium</b>	<b>420</b>		52	6.9	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Vanadium</b>	<b>15</b>		0.26	0.076	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1
<b>Zinc</b>	<b>63</b>		1.0	0.33	mg/Kg	☼	03/06/16 09:51	03/08/16 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 11:23	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		03/09/16 17:30	03/10/16 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>33</b>		20	10	ug/Kg	☼	03/07/16 19:00	03/11/16 10:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.90</b>		0.200	0.200	SU			03/08/16 16:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416D**

**Lab Sample ID: 500-108392-12**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/07/16 16:13	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 16:13	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/07/16 16:13	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 16:13	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 16:13	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 16:13	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/07/16 16:13	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/07/16 16:13	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/07/16 16:13	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 16:13	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 16:13	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 16:13	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 16:13	1
2-Hexanone	<6.0		6.0	1.8	ug/Kg	☼		03/07/16 16:13	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/07/16 16:13	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 16:13	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/07/16 16:13	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 16:13	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 16:13	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 16:13	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 16:13	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 16:13	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 16:13	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 16:13	1
Dibromofluoromethane	105		75 - 120		03/07/16 16:13	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 16:13	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 16:13	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	☼	03/07/16 16:59	03/10/16 17:53	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416D**

**Lab Sample ID: 500-108392-12**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	87	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Acenaphthylene</b>	<b>18</b>	<b>J</b>	38	5.0	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Anthracene</b>	<b>23</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Benzo[a]anthracene</b>	<b>82</b>		38	5.2	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Benzo[a]pyrene</b>	<b>87</b>		38	7.4	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>		38	8.3	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Benzo[g,h,i]perylene</b>	<b>39</b>		38	12	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Benzo[k]fluoranthene</b>	<b>40</b>		38	11	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Chrysene</b>	<b>110</b>		38	10	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Fluoranthene</b>	<b>240</b>		38	7.1	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416D**

**Lab Sample ID: 500-108392-12**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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>42</b>		38	9.9	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Phenanthrene</b>	<b>390</b>		38	5.3	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	1
<b>Pyrene</b>	<b>180</b>		38	7.6	ug/Kg	☼	03/07/16 16:59	03/10/16 17:53	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	17	X	35 - 137				03/07/16 16:59	03/10/16 17:53	1
2-Fluorobiphenyl	73		25 - 119				03/07/16 16:59	03/10/16 17:53	1
2-Fluorophenol	78		25 - 110				03/07/16 16:59	03/10/16 17:53	1
Nitrobenzene-d5	67		25 - 115				03/07/16 16:59	03/10/16 17:53	1
Phenol-d5	71		31 - 110				03/07/16 16:59	03/10/16 17:53	1
Terphenyl-d14	84		36 - 134				03/07/16 16:59	03/10/16 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:34	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:34	1
<b>Manganese</b>	<b>0.58</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:34	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:34	1
<b>Zinc</b>	<b>0.30</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:34	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		03/10/16 08:54	03/11/16 08:41	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 08:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 08:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Chromium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Iron</b>	<b>11</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Manganese</b>	<b>0.086</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:41	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 08:41	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: BR7-6(0-1)-030416D**

**Lab Sample ID: 500-108392-12**

**Date Collected: 03/04/16 15:15**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.8**

**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		03/10/16 08:54	03/11/16 08:41	1
<b>Zinc</b>	<b>0.31</b>	<b>J ^</b>	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 08:41	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Arsenic</b>	<b>8.5</b>		0.50	0.23	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Barium</b>	<b>23</b>		0.50	0.092	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Beryllium</b>	<b>0.45</b>		0.20	0.043	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Cadmium</b>	<b>0.33</b>	<b>B</b>	0.10	0.029	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Calcium</b>	<b>39000</b>	<b>B</b>	100	32	mg/Kg	☼	03/06/16 09:51	03/08/16 14:41	10
<b>Chromium</b>	<b>7.1</b>	<b>B</b>	0.50	0.086	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Cobalt</b>	<b>3.6</b>		0.25	0.057	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Copper</b>	<b>9.8</b>		0.50	0.11	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Iron</b>	<b>12000</b>		10	3.9	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Lead</b>	<b>41</b>		0.25	0.13	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.0	2.0	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Manganese</b>	<b>170</b>	<b>B</b>	0.50	0.099	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Nickel</b>	<b>9.3</b>		0.50	0.14	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Potassium</b>	<b>520</b>		25	4.1	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Selenium</b>	<b>0.55</b>		0.50	0.25	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Sodium</b>	<b>350</b>		50	6.6	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Vanadium</b>	<b>12</b>		0.25	0.073	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1
<b>Zinc</b>	<b>73</b>		1.0	0.32	mg/Kg	☼	03/06/16 09:51	03/08/16 00:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 11:25	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		03/09/16 17:30	03/10/16 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>35</b>		19	9.8	ug/Kg	☼	03/07/16 19:00	03/11/16 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.39</b>		0.200	0.200	SU			03/08/16 16:38	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## 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
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. Babushkumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bondwood #Custer Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TCUP/SAP Metals	PH								
1		AL19-3(0-1)-030416	3-4-16	1320	2 S		X	X	X	X	X								
2		AL19-3(0-1)-030416(D)		1320															
3		ALF-1(0-1)-030416		1340															
4		R14-3(0-1)-030416		1345															
5		WL13-1(0-1)-030416		1355															
6		BR7-1(0-1)-030416		1410															
7		BR7-2(0-1)-030416		1415															
8		BR7-3(0-1)-030416		1425															
9		BR7-4(0-1)-030416		1445															
10		BR-7-5(0-1)-030416	3-4-16	1505	2 S		X	X	X	X	X								



Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Shil Sanyal</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>#85</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time <u>16:50</u>	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: 08/16/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: S. Babusukumar  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 580-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Lab Project #		Lab PM												Comments	
<u>IDOT-040</u>		<u>Braidwood &amp; Custer Park / IL</u>				<u>D. Wright</u>													
Sampler		Sample ID		Sampling		# of Containers		Matrix											
<u>T. Walls</u>				Date Time															
<u>11</u>		<u>BR7-6(0-1)-030416</u>		<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>5</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>12</u>		<u>BR7-6(0-1)-030416D</u>		<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>5</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<del><u>7-6-2016 3-4-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days standard \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CAT</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TALHE</u>	Date <u>03/04/16</u>	Time <u>10:50</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: \_\_\_\_\_

# 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: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 AM

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

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*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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-7(0-1)-030716**

**Lab Sample ID: 500-108434-1**

**Date Collected: 03/07/16 08:40**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 11:01	1
Benzene	<5.8	F1	5.8	1.3	ug/Kg	☼		03/08/16 11:01	1
Bromodichloromethane	<5.8	F1	5.8	0.98	ug/Kg	☼		03/08/16 11:01	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
Bromomethane	<5.8	F1	5.8	2.1	ug/Kg	☼		03/08/16 11:01	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 11:01	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
Chlorobenzene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/08/16 11:01	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 11:01	1
Chloromethane	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
cis-1,2-Dichloroethene	<5.8	F1	5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
cis-1,3-Dichloropropene	<5.8	F1	5.8	1.3	ug/Kg	☼		03/08/16 11:01	1
Dibromochloromethane	<5.8	F1	5.8	0.67	ug/Kg	☼		03/08/16 11:01	1
1,1-Dichloroethane	<5.8	F1	5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/08/16 11:01	1
1,1-Dichloroethene	<5.8	F1	5.8	2.1	ug/Kg	☼		03/08/16 11:01	1
1,2-Dichloropropane	<5.8	F1	5.8	1.5	ug/Kg	☼		03/08/16 11:01	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 11:01	1
Ethylbenzene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/08/16 11:01	1
Methylene Chloride	<5.8	F1	5.8	4.4	ug/Kg	☼		03/08/16 11:01	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 11:01	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
Styrene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
1,1,2,2-Tetrachloroethane	<5.8	F1	5.8	0.93	ug/Kg	☼		03/08/16 11:01	1
Tetrachloroethene	<5.8	F1	5.8	1.2	ug/Kg	☼		03/08/16 11:01	1
Toluene	<5.8	F1	5.8	2.0	ug/Kg	☼		03/08/16 11:01	1
trans-1,2-Dichloroethene	<5.8	F1	5.8	1.5	ug/Kg	☼		03/08/16 11:01	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 11:01	1
1,1,1-Trichloroethane	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
1,1,2-Trichloroethane	<5.8	F1	5.8	1.1	ug/Kg	☼		03/08/16 11:01	1
Trichloroethene	<5.8	F1	5.8	1.6	ug/Kg	☼		03/08/16 11:01	1
Vinyl chloride	<5.8	F1	5.8	1.4	ug/Kg	☼		03/08/16 11:01	1
Xylenes, Total	<12	F1	12	2.2	ug/Kg	☼		03/08/16 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 11:01	1
Dibromofluoromethane	102		75 - 120		03/08/16 11:01	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/08/16 11:01	1
Toluene-d8 (Surr)	106		75 - 122		03/08/16 11:01	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	☼	03/08/16 16:15	03/10/16 12:12	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-7(0-1)-030716**

**Lab Sample ID: 500-108434-1**

**Date Collected: 03/07/16 08:40**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,4-Dinitrophenol	<740	F1	740	640	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
3,3'-Dichlorobenzidine	<180	F1 F2	180	51	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4,6-Dinitro-2-methylphenol	<740	F1	740	290	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Benzo[a]anthracene</b>	<b>19</b>	<b>J</b>	36	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Benzo[a]pyrene</b>	<b>11</b>	<b>J</b>	36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Benzo[b]fluoranthene</b>	<b>18</b>	<b>J</b>	36	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Bis(2-ethylhexyl) phthalate	<180	F1	180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Butyl benzyl phthalate	<180	F1	180	70	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Chrysene</b>	<b>22</b>	<b>J</b>	36	10	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Di-n-octyl phthalate	<180	F1	180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Fluoranthene</b>	<b>38</b>	<b>F1</b>	36	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Hexachlorocyclopentadiene	<740	F1	740	210	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Hexachloroethane	<180	F1	180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-7(0-1)-030716**

**Lab Sample ID: 500-108434-1**

**Date Collected: 03/07/16 08:40**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Phenanthrene</b>	<b>120</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1
<b>Pyrene</b>	<b>24</b>	<b>J F1</b>	36	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137	03/08/16 16:15	03/10/16 12:12	1
2-Fluorobiphenyl	74		25 - 119	03/08/16 16:15	03/10/16 12:12	1
2-Fluorophenol	66		25 - 110	03/08/16 16:15	03/10/16 12:12	1
Nitrobenzene-d5	78		25 - 115	03/08/16 16:15	03/10/16 12:12	1
Phenol-d5	71		31 - 110	03/08/16 16:15	03/10/16 12:12	1
Terphenyl-d14	94		36 - 134	03/08/16 16:15	03/10/16 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
<b>Barium</b>	<b>0.067</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 14:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 14:31	1
<b>Cadmium</b>	<b>0.0042</b>	<b>J</b>	0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 14:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 14:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 14:31	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 14:31	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:31	1
<b>Zinc</b>	<b>1.3</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Barium</b>	<b>0.053</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 21:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Iron</b>	<b>9.2</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Lead</b>	<b>0.010</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 21:47	1
<b>Manganese</b>	<b>0.029</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 21:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-7(0-1)-030716**

**Lab Sample ID: 500-108434-1**

**Date Collected: 03/07/16 08:40**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.7**

**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		03/11/16 08:51	03/11/16 21:47	1
<b>Zinc</b>	<b>0.19</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 21:47	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	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Arsenic</b>	<b>5.2</b>		0.57	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Barium</b>	<b>18</b>		0.57	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Beryllium</b>	<b>0.74</b>		0.23	0.049	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Cadmium</b>	<b>0.56</b>		0.11	0.033	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	11	3.7	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Chromium</b>	<b>6.5</b>	<b>B</b>	2.8	0.098	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Cobalt</b>	<b>2.6</b>		0.28	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Copper</b>	<b>7.4</b>		0.57	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Iron</b>	<b>9300</b>		11	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Lead</b>	<b>9.8</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Magnesium</b>	<b>5900</b>		5.7	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Manganese</b>	<b>48</b>		0.57	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Nickel</b>	<b>8.9</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Potassium</b>	<b>260</b>		28	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Sodium</b>	<b>500</b>		57	7.5	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Vanadium</b>	<b>13</b>		0.28	0.083	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1
<b>Zinc</b>	<b>89</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 15:56	03/10/16 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>18</b>	<b>J F1 F2</b>	19	10	ug/Kg	☼	03/09/16 14:00	03/11/16 12:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.35</b>		0.200	0.200	SU			03/09/16 14:24	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-8(0-1)-030716**

**Lab Sample ID: 500-108434-2**

**Date Collected: 03/07/16 08:53**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/08/16 12:16	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 12:16	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/08/16 12:16	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 12:16	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/08/16 12:16	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/08/16 12:16	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 12:16	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/08/16 12:16	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 12:16	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 12:16	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/08/16 12:16	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 12:16	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/08/16 12:16	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 12:16	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/08/16 12:16	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/08/16 12:16	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/08/16 12:16	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/08/16 12:16	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/08/16 12:16	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 12:16	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 12:16	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/08/16 12:16	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 12:16	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 12:16	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/08/16 12:16	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/08/16 12:16	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 12:16	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/08/16 12:16	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 12:16	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/08/16 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 12:16	1
Dibromofluoromethane	100		75 - 120		03/08/16 12:16	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/08/16 12:16	1
Toluene-d8 (Surr)	108		75 - 122		03/08/16 12:16	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	☼	03/08/16 16:15	03/11/16 22:31	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-8(0-1)-030716**

**Lab Sample ID: 500-108434-2**

**Date Collected: 03/07/16 08:53**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.1**

**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	☼	03/08/16 16:15	03/11/16 22:31	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>2-Methylnaphthalene</b>	<b>9.8</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Acenaphthene</b>	<b>7.8</b>	<b>J</b>	36	6.5	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Acenaphthylene</b>	<b>15</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Anthracene</b>	<b>18</b>	<b>J</b>	36	6.1	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Benzo[a]anthracene</b>	<b>90</b>		36	4.9	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Benzo[a]pyrene</b>	<b>100</b>	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>	*	36	7.8	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Benzo[g,h,i]perylene</b>	<b>44</b>	*	36	12	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Benzo[k]fluoranthene</b>	<b>57</b>	*	36	11	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Chrysene</b>	<b>120</b>		36	9.9	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Fluoranthene</b>	<b>210</b>		36	6.7	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Fluorene</b>	<b>9.3</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-8(0-1)-030716**

**Lab Sample ID: 500-108434-2**

**Date Collected: 03/07/16 08:53**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.1**

## 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>44</b>	*	36	9.4	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Naphthalene</b>	<b>6.0</b>	J	36	5.6	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Phenanthrene</b>	<b>290</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
<b>Pyrene</b>	<b>250</b>		36	7.2	ug/Kg	☼	03/08/16 16:15	03/11/16 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		35 - 137				03/08/16 16:15	03/11/16 22:31	1
2-Fluorobiphenyl	73		25 - 119				03/08/16 16:15	03/11/16 22:31	1
2-Fluorophenol	79		25 - 110				03/08/16 16:15	03/11/16 22:31	1
Nitrobenzene-d5	67		25 - 115				03/08/16 16:15	03/11/16 22:31	1
Phenol-d5	79		31 - 110				03/08/16 16:15	03/11/16 22:31	1
Terphenyl-d14	119		36 - 134				03/08/16 16:15	03/11/16 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
<b>Barium</b>	<b>0.16</b>	J	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 14:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 14:38	1
<b>Cadmium</b>	<b>0.0034</b>	J	0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 14:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 14:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 14:38	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 14:38	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:38	1
<b>Zinc</b>	<b>0.24</b>	J	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 14:38	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		03/11/16 08:51	03/11/16 21:54	1
<b>Barium</b>	<b>0.092</b>	J	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 21:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 21:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Chromium</b>	<b>0.015</b>	J	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Copper</b>	<b>0.020</b>	J	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Iron</b>	<b>10</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Lead</b>	<b>0.073</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:54	1
<b>Nickel</b>	<b>0.011</b>	J	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 21:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 21:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-8(0-1)-030716**

**Lab Sample ID: 500-108434-2**

**Date Collected: 03/07/16 08:53**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.1**

**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		03/11/16 08:51	03/11/16 21:54	1
<b>Zinc</b>	<b>0.23</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 21:54	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</b>	1.0	0.22	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Arsenic</b>	<b>2.5</b>		0.52	0.24	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Barium</b>	<b>43</b>		0.52	0.095	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Beryllium</b>	<b>0.49</b>		0.21	0.045	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Cadmium</b>	<b>0.34</b>		0.10	0.030	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	10	3.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Chromium</b>	<b>4.7</b>	<b>B</b>	2.6	0.089	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Cobalt</b>	<b>1.8</b>		0.26	0.059	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Copper</b>	<b>5.4</b>		0.52	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Iron</b>	<b>5700</b>		10	4.0	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Lead</b>	<b>53</b>		0.26	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Magnesium</b>	<b>15000</b>		5.2	2.1	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Manganese</b>	<b>96</b>		0.52	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Nickel</b>	<b>5.4</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Potassium</b>	<b>330</b>		26	4.2	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Sodium</b>	<b>440</b>		52	6.9	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Vanadium</b>	<b>8.0</b>		0.26	0.076	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	1
<b>Zinc</b>	<b>57</b>	<b>B</b>	1.0	0.33	mg/Kg	☼	03/09/16 15:56	03/10/16 21:34	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		03/10/16 20:00	03/12/16 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/09/16 14:00	03/11/16 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.93</b>		0.200	0.200	SU			03/09/16 14:28	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-9(0-1)-030716**

**Lab Sample ID: 500-108434-3**

**Date Collected: 03/07/16 09:15**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 12:41	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 12:41	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/08/16 12:41	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 12:41	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 12:41	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/08/16 12:41	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 12:41	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 12:41	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/08/16 12:41	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/08/16 12:41	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 12:41	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 12:41	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 12:41	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/08/16 12:41	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/08/16 12:41	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 12:41	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/08/16 12:41	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 12:41	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/08/16 12:41	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 12:41	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 12:41	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 12:41	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 12:41	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 12:41	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/08/16 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 12:41	1
Dibromofluoromethane	100		75 - 120		03/08/16 12:41	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/08/16 12:41	1
Toluene-d8 (Surr)	107		75 - 122		03/08/16 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-9(0-1)-030716**

**Lab Sample ID: 500-108434-3**

**Date Collected: 03/07/16 09:15**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.9**

**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	☼	03/08/16 16:15	03/10/16 12:36	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
<b>Benzo[a]anthracene</b>	<b>11 J</b>		37	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Carbazole	<190		190	93	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
<b>Chrysene</b>	<b>17 J</b>		37	10	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
<b>Fluoranthene</b>	<b>19 J</b>		37	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-9(0-1)-030716**

**Lab Sample ID: 500-108434-3**

**Date Collected: 03/07/16 09:15**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
<b>Phenanthrene</b>	<b>94</b>		37	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Phenol	<190		190	82	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
<b>Pyrene</b>	<b>16 J</b>		37	7.4	ug/Kg	☼	03/08/16 16:15	03/10/16 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/08/16 16:15	03/10/16 12:36	1
2-Fluorobiphenyl	71		25 - 119				03/08/16 16:15	03/10/16 12:36	1
2-Fluorophenol	54		25 - 110				03/08/16 16:15	03/10/16 12:36	1
Nitrobenzene-d5	61		25 - 115				03/08/16 16:15	03/10/16 12:36	1
Phenol-d5	71		31 - 110				03/08/16 16:15	03/10/16 12:36	1
Terphenyl-d14	93		36 - 134				03/08/16 16:15	03/10/16 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
<b>Barium</b>	<b>0.11 J</b>		0.50	0.050	mg/L		03/10/16 14:50	03/11/16 14:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 14:45	1
<b>Cadmium</b>	<b>0.0034 J</b>		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 14:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 14:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 14:45	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 14:45	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:45	1
<b>Zinc</b>	<b>0.46 J</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 14:45	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		03/11/16 08:51	03/11/16 22:00	1
<b>Barium</b>	<b>0.082 J</b>		0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:00	1
<b>Chromium</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:00	1
<b>Copper</b>	<b>0.015 J</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:00	1
<b>Iron</b>	<b>6.1</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:00	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:00	1
<b>Manganese</b>	<b>0.034</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-9(0-1)-030716**

**Lab Sample ID: 500-108434-3**

**Date Collected: 03/07/16 09:15**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.9**

**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		03/11/16 08:51	03/11/16 22:00	1
<b>Zinc</b>	<b>0.21</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:00	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	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Arsenic</b>	<b>3.6</b>		0.56	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Barium</b>	<b>18</b>		0.56	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Beryllium</b>	<b>0.48</b>		0.22	0.048	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Cadmium</b>	<b>0.41</b>		0.11	0.032	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Chromium</b>	<b>5.0</b>	<b>B</b>	2.8	0.096	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Cobalt</b>	<b>1.9</b>		0.28	0.063	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Copper</b>	<b>4.5</b>		0.56	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Iron</b>	<b>5900</b>		11	4.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Lead</b>	<b>8.1</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Magnesium</b>	<b>1100</b>		5.6	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Manganese</b>	<b>39</b>		0.56	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Nickel</b>	<b>5.9</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Potassium</b>	<b>210</b>		28	4.5	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Sodium</b>	<b>440</b>		56	7.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Vanadium</b>	<b>8.3</b>		0.28	0.081	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1
<b>Zinc</b>	<b>63</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	03/09/16 15:56	03/10/16 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>57</b>		19	9.9	ug/Kg	☼	03/09/16 14:00	03/11/16 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.10</b>		0.200	0.200	SU			03/09/16 14:32	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-10(0-1)-030716**

**Lab Sample ID: 500-108434-4**

**Date Collected: 03/07/16 09:27**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 13:06	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 13:06	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/08/16 13:06	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 13:06	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 13:06	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/08/16 13:06	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 13:06	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 13:06	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/08/16 13:06	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/08/16 13:06	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 13:06	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 13:06	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 13:06	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/08/16 13:06	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/08/16 13:06	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 13:06	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 13:06	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/08/16 13:06	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 13:06	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/08/16 13:06	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 13:06	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 13:06	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 13:06	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 13:06	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 13:06	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/08/16 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 13:06	1
Dibromofluoromethane	103		75 - 120		03/08/16 13:06	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/08/16 13:06	1
Toluene-d8 (Surr)	104		75 - 122		03/08/16 13:06	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	☼	03/08/16 16:15	03/10/16 13:48	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-10(0-1)-030716**

**Lab Sample ID: 500-108434-4**

**Date Collected: 03/07/16 09:27**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

**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	☼	03/08/16 16:15	03/10/16 13:48	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Benzo[a]anthracene</b>	<b>17</b>	<b>J</b>	36	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Benzo[a]pyrene</b>	<b>18</b>	<b>J*</b>	36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Benzo[b]fluoranthene</b>	<b>36</b>	<b>*</b>	36	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Benzo[k]fluoranthene	<36	*	36	11	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Chrysene</b>	<b>25</b>	<b>J</b>	36	10	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Fluoranthene</b>	<b>29</b>	<b>J</b>	36	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-10(0-1)-030716**

**Lab Sample ID: 500-108434-4**

**Date Collected: 03/07/16 09:27**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Phenanthrene</b>	<b>81</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1
<b>Pyrene</b>	<b>35</b>	<b>J</b>	36	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137	03/08/16 16:15	03/10/16 13:48	1
2-Fluorobiphenyl	64		25 - 119	03/08/16 16:15	03/10/16 13:48	1
2-Fluorophenol	70		25 - 110	03/08/16 16:15	03/10/16 13:48	1
Nitrobenzene-d5	72		25 - 115	03/08/16 16:15	03/10/16 13:48	1
Phenol-d5	56		31 - 110	03/08/16 16:15	03/10/16 13:48	1
Terphenyl-d14	99		36 - 134	03/08/16 16:15	03/10/16 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
<b>Barium</b>	<b>0.086</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 14:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 14:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 14:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 14:52	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 14:52	1
<b>Manganese</b>	<b>0.48</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 14:52	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:52	1
<b>Zinc</b>	<b>1.1</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 14:52	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		03/11/16 08:51	03/11/16 22:07	1
Barium	<0.50		0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:07	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:07	1
<b>Iron</b>	<b>2.7</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:07	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:07	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-10(0-1)-030716**

**Lab Sample ID: 500-108434-4**

Date Collected: 03/07/16 09:27

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 86.8

**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		03/11/16 08:51	03/11/16 22:07	1
<b>Zinc</b>	<b>0.098</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:07	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	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Arsenic</b>	<b>1.4</b>		0.53	0.25	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Barium</b>	<b>7.9</b>		0.53	0.098	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Beryllium</b>	<b>0.10</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.031	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Calcium</b>	<b>4800</b>	<b>B</b>	11	3.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Chromium</b>	<b>2.5</b>	<b>J B</b>	2.7	0.092	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Cobalt</b>	<b>0.73</b>		0.27	0.060	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Copper</b>	<b>1.7</b>		0.53	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Iron</b>	<b>2100</b>		11	4.1	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Lead</b>	<b>8.9</b>		0.27	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Magnesium</b>	<b>2700</b>		5.3	2.2	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Manganese</b>	<b>22</b>		0.53	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Nickel</b>	<b>2.2</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Potassium</b>	<b>110</b>		27	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Sodium</b>	<b>290</b>		53	7.0	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Vanadium</b>	<b>2.6</b>		0.27	0.078	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1
<b>Zinc</b>	<b>12</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	03/09/16 15:56	03/10/16 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>47</b>		19	9.9	ug/Kg	☼	03/09/16 14:00	03/11/16 12:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.65</b>		0.200	0.200	SU			03/09/16 14:35	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-11(0-1)-030716**

**Lab Sample ID: 500-108434-5**

**Date Collected: 03/07/16 09:38**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 83.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/08/16 13:32	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/08/16 13:32	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/08/16 13:32	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/08/16 13:32	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/08/16 13:32	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/08/16 13:32	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/08/16 13:32	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/08/16 13:32	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/08/16 13:32	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/08/16 13:32	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/08/16 13:32	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/08/16 13:32	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/08/16 13:32	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/08/16 13:32	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/08/16 13:32	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/08/16 13:32	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/08/16 13:32	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/08/16 13:32	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/08/16 13:32	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/08/16 13:32	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/08/16 13:32	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/08/16 13:32	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/08/16 13:32	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/08/16 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 13:32	1
Dibromofluoromethane	103		75 - 120		03/08/16 13:32	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/08/16 13:32	1
Toluene-d8 (Surr)	108		75 - 122		03/08/16 13:32	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	☼	03/08/16 16:15	03/10/16 14:12	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-11(0-1)-030716**

**Lab Sample ID: 500-108434-5**

**Date Collected: 03/07/16 09:38**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	39	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Benzo[a]anthracene</b>	<b>35</b>	<b>J</b>	39	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Benzo[a]pyrene</b>	<b>35</b>	<b>J *</b>	39	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Benzo[b]fluoranthene</b>	<b>59</b>	<b>*</b>	39	8.4	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Benzo[g,h,i]perylene	<39	<b>*</b>	39	12	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Benzo[k]fluoranthene</b>	<b>24</b>	<b>J *</b>	39	11	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Carbazole	<190		190	97	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Chrysene</b>	<b>47</b>		39	11	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Dibenz(a,h)anthracene	<39	<b>*</b>	39	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Fluoranthene</b>	<b>65</b>		39	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-11(0-1)-030716**

**Lab Sample ID: 500-108434-5**

**Date Collected: 03/07/16 09:38**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Isophorone	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Phenanthrene</b>	<b>200</b>		39	5.4	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
Phenol	<190		190	86	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1
<b>Pyrene</b>	<b>72</b>		39	7.7	ug/Kg	☼	03/08/16 16:15	03/10/16 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		35 - 137	03/08/16 16:15	03/10/16 14:12	1
2-Fluorobiphenyl	82		25 - 119	03/08/16 16:15	03/10/16 14:12	1
2-Fluorophenol	80		25 - 110	03/08/16 16:15	03/10/16 14:12	1
Nitrobenzene-d5	85		25 - 115	03/08/16 16:15	03/10/16 14:12	1
Phenol-d5	69		31 - 110	03/08/16 16:15	03/10/16 14:12	1
Terphenyl-d14	133		36 - 134	03/08/16 16:15	03/10/16 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 14:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 14:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 14:58	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 14:58	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 14:58	1
<b>Zinc</b>	<b>0.39</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Barium</b>	<b>0.064</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Iron</b>	<b>5.8</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Lead</b>	<b>0.032</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:14	1
<b>Manganese</b>	<b>0.058</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-11(0-1)-030716**

**Lab Sample ID: 500-108434-5**

**Date Collected: 03/07/16 09:38**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 83.6**

**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		03/11/16 08:51	03/11/16 22:14	1
<b>Zinc</b>	<b>0.19</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:14	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	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Arsenic</b>	<b>2.7</b>		0.57	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Barium</b>	<b>19</b>		0.57	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Beryllium</b>	<b>0.53</b>		0.23	0.049	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Cadmium</b>	<b>0.59</b>		0.11	0.033	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Calcium</b>	<b>8800</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Chromium</b>	<b>4.2</b>	<b>B</b>	2.8	0.097	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Cobalt</b>	<b>1.7</b>		0.28	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Copper</b>	<b>7.2</b>		0.57	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Iron</b>	<b>5400</b>		11	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Lead</b>	<b>27</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Magnesium</b>	<b>4300</b>		5.7	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Manganese</b>	<b>52</b>		0.57	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Nickel</b>	<b>6.0</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Potassium</b>	<b>240</b>		28	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Selenium</b>	<b>0.33</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Sodium</b>	<b>740</b>		57	7.5	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Vanadium</b>	<b>7.1</b>		0.28	0.083	mg/Kg	☼	03/09/16 15:56	03/10/16 21:47	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 15:56	03/10/16 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		03/10/16 20:00	03/12/16 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	20	10	ug/Kg	☼	03/09/16 14:00	03/11/16 12:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.61</b>		0.200	0.200	SU			03/09/16 14:39	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-12(0-1)-030716**

**Lab Sample ID: 500-108434-6**

**Date Collected: 03/07/16 09:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/08/16 13:57	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 13:57	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/08/16 13:57	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 13:57	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/08/16 13:57	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/08/16 13:57	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 13:57	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/08/16 13:57	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 13:57	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 13:57	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/08/16 13:57	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 13:57	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/08/16 13:57	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 13:57	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/08/16 13:57	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/08/16 13:57	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/08/16 13:57	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/08/16 13:57	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/08/16 13:57	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 13:57	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 13:57	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/08/16 13:57	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/08/16 13:57	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/08/16 13:57	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/08/16 13:57	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/08/16 13:57	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/08/16 13:57	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/08/16 13:57	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/08/16 13:57	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/08/16 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/08/16 13:57	1
Dibromofluoromethane	103		75 - 120		03/08/16 13:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/08/16 13:57	1
Toluene-d8 (Surr)	106		75 - 122		03/08/16 13:57	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	☼	03/08/16 16:15	03/10/16 14:36	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-12(0-1)-030716**

**Lab Sample ID: 500-108434-6**

**Date Collected: 03/07/16 09:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.0**

**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	☼	03/08/16 16:15	03/10/16 14:36	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>2-Methylnaphthalene</b>	<b>6.9</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Acenaphthylene</b>	<b>8.1</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Benzo[a]anthracene</b>	<b>42</b>		36	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Benzo[a]pyrene</b>	<b>46</b>	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Benzo[b]fluoranthene</b>	<b>80</b>	*	36	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Benzo[k]fluoranthene</b>	<b>30</b>	<b>J *</b>	36	11	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Chrysene</b>	<b>49</b>		36	9.9	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Fluoranthene</b>	<b>64</b>		36	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-12(0-1)-030716**

**Lab Sample ID: 500-108434-6**

**Date Collected: 03/07/16 09:47**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 89.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.4	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Phenanthrene</b>	<b>150</b>		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	1
<b>Pyrene</b>	<b>80</b>		36	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 14:36	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	88		35 - 137				03/08/16 16:15	03/10/16 14:36	1
2-Fluorobiphenyl	85		25 - 119				03/08/16 16:15	03/10/16 14:36	1
2-Fluorophenol	90		25 - 110				03/08/16 16:15	03/10/16 14:36	1
Nitrobenzene-d5	89		25 - 115				03/08/16 16:15	03/10/16 14:36	1
Phenol-d5	85		31 - 110				03/08/16 16:15	03/10/16 14:36	1
Terphenyl-d14	146	X	36 - 134				03/08/16 16:15	03/10/16 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 15:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 15:05	1
<b>Cadmium</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 15:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 15:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 15:05	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 15:05	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:05	1
<b>Zinc</b>	<b>0.71</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Barium</b>	<b>0.082</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 22:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 22:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Iron</b>	<b>9.3</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Lead</b>	<b>0.036</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 22:21	1
<b>Manganese</b>	<b>0.089</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 22:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 22:21	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: BR7-12(0-1)-030716**

**Lab Sample ID: 500-108434-6**

Date Collected: 03/07/16 09:47

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 89.0

**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		03/11/16 08:51	03/11/16 22:21	1
<b>Zinc</b>	<b>0.73</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 22:21	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	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Arsenic</b>	<b>3.1</b>		0.53	0.25	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Barium</b>	<b>21</b>		0.53	0.097	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Beryllium</b>	<b>0.43</b>		0.21	0.046	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Cadmium</b>	<b>0.55</b>		0.11	0.031	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	110	34	mg/Kg	☼	03/09/16 15:56	03/11/16 00:01	10
<b>Chromium</b>	<b>4.5</b>	<b>B</b>	2.7	0.091	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Cobalt</b>	<b>1.9</b>		0.27	0.060	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Copper</b>	<b>6.7</b>		0.53	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Iron</b>	<b>5600</b>		11	4.1	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Lead</b>	<b>28</b>		0.27	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Magnesium</b>	<b>23000</b>		5.3	2.2	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Manganese</b>	<b>110</b>		0.53	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Nickel</b>	<b>5.9</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Potassium</b>	<b>300</b>		27	4.3	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Selenium</b>	<b>0.36</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Sodium</b>	<b>390</b>		53	7.0	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Vanadium</b>	<b>7.4</b>		0.27	0.077	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1
<b>Zinc</b>	<b>84</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	03/09/16 15:56	03/10/16 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:02	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		03/10/16 20:00	03/12/16 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>97</b>		17	9.0	ug/Kg	☼	03/09/16 14:00	03/11/16 12:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.48</b>		0.200	0.200	SU			03/09/16 14:43	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUR/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

Per Manual 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped:

Hand Delivered:

### Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-108434

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

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH	
Project Location/State		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	Comments						
Weston Solutions		02056-04-040-0030		7	7	7	7	7			
IDOT 040-IL Route 113											
Brandwood Dr		D. Wright									
M. Doherty-Skubic											
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

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

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

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

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

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

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

Client Comments

Lab Comments:





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

24329 W. IL 113 (ISGS Site No. 2948-8)

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

County: Will Township: Custer

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

Latitude: 41.260810662 Longitude: -88.190903200  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113Latitude: 41.260810662 Longitude: -88.190903200Uncontaminated 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 BDS-1 THROUGH BDS-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-8. SEE FIGURES 3-1/3-2 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: 500-108244-1.  
ALSO SEE FIGURES 4-1 AND 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

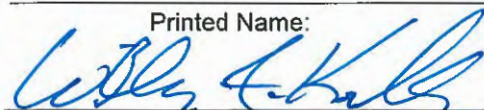
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



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

**Summary Table of ISGS Site No. 2948-8**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	BDS-1(0-1)-030216	BDS-2(0-1)-030216	BDS-3(0-1)-030216	BDS-4(0-1)-030216	BDS-4(0-1)-030216D	BDS-5(0-1)-030216	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	
Location ID	BDS-1	BDS-2	BDS-3	BDS-4	BDS-4	BDS-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-8	2948-8	2948-8	2948-8	2948-8	2948-8	
<b>Parameter</b>							
Laboratory pH	8.48	8.27	7.85	6.86	7.16	8.92	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected						
<b>SVOCs (ug/kg)</b>							
Benzo(a)anthracene	27 J	19 J	ND	ND	ND	130	900 / 1100 / 1800
Benzo(a)pyrene	28 J	25 J	ND	ND	ND	150	90 / 1300 / 2100
Benzo(b)fluoranthene	49	43	ND	ND	ND	240	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	20 J	16 J	ND	ND	ND	100	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>							
Arsenic, Total	1.9 J	1.2 J	1.5 J	0.75 J	0.89 J	3.3 J	11.3 / 13
Barium, Total	11	11	12	11	10	22	1500
Beryllium, Total	0.3	0.17 J	0.23	0.097 J	0.15 J	0.49	22
Cadmium, Total	0.45	0.15	0.12	0.06 J	0.063 J	0.45	5.2
Calcium, Total	77000 J-	22000 J-	3900 J-	550 J-	640 J-	26000 J-	---
Chromium, Total	3.7 B	3.7 B	5.2 B	3.7 B	3.2 B	5 B	21
Iron, Total	5100 J	2300 J	3300 J	2500 J	2400 J	6500 J	15000 / 15900
Lead, Total	66 J	11 J	4.6 J	3.9 J	4 J	32 J	107
Manganese, Total	120 J	55 J	23 J	23 J	24 J	96 J	630 / 636
Mercury, Total	0.027	0.022	ND	0.02	0.016 J	0.031	0.89
Nickel, Total	4.2 B	3 B	3.8 B	2.4 B	2.4 B	7.2 B	100
Potassium, Total	200 B	230 B	160 B	110 B	110 B	300 B	---
Selenium, Total	0.44 J	ND	ND	ND	ND	0.36 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	54	19	28	13	14	80	5100
<b>TCLP Metals (mg/l)</b>							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.1 J	0.093 J	0.14 J	0.1 J	0.09 J	0.18 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0023 J	ND	0.0028 J	ND	ND	0.0047 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	0.47	0.28 J	0.26 J	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.45	0.5	0.27	0.099	0.1	0.98	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.24 J	0.12 J	0.25 J	0.24 J	0.92	0.27 J	5

**Summary Table of ISGS Site No. 2948-8**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	BDS-1(0-1)-030216	BDS-2(0-1)-030216	BDS-3(0-1)-030216	BDS-4(0-1)-030216	BDS-4(0-1)-030216D	BDS-5(0-1)-030216	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	
Location ID	BDS-1	BDS-2	BDS-3	BDS-4	BDS-4	BDS-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-8	2948-8	2948-8	2948-8	2948-8	2948-8	
Parameter							
<b>SPLP Metals (mg/l)</b>							
Arsenic, SPLP	ND	ND	ND	ND	ND	0.022 J	0.05
Barium, SPLP	0.051 J	ND	0.15 J	ND	ND	0.17 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.0021 J	0.005
Chromium, SPLP	0.011 J	0.012 J	0.052	ND	ND	0.037	0.1
Iron, SPLP	7.8 J+	6.9 J+	25 J+	4.8 J+	4.4 J+	33 J+	5
Lead, SPLP	0.053	0.056	0.03	0.0078	0.0078	0.18	0.0075
Manganese, SPLP	0.11	0.096	0.088	0.042	0.041	0.37	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	ND	0.027	ND	ND	0.036	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	ND	ND	ND	5

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

Review your project  
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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.*

- 1
- 2
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-1(0-1)-030216**

**Lab Sample ID: 500-108244-8**

**Date Collected: 03/02/16 10:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/04/16 01:57	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/04/16 01:57	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/04/16 01:57	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 01:57	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 01:57	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/04/16 01:57	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/04/16 01:57	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/04/16 01:57	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/04/16 01:57	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 01:57	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/04/16 01:57	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/04/16 01:57	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/04/16 01:57	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/04/16 01:57	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/04/16 01:57	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/04/16 01:57	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/04/16 01:57	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 01:57	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/04/16 01:57	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/04/16 01:57	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/04/16 01:57	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/04/16 01:57	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/04/16 01:57	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 01:57	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/04/16 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/04/16 01:57	1
Dibromofluoromethane	104		75 - 120		03/04/16 01:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/04/16 01:57	1
Toluene-d8 (Surr)	114		75 - 122		03/04/16 01:57	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	☼	03/05/16 16:34	03/06/16 21:44	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-1(0-1)-030216**

**Lab Sample ID: 500-108244-8**

**Date Collected: 03/02/16 10:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>2-Methylnaphthalene</b>	<b>18</b>	<b>J</b>	37	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Anthracene</b>	<b>6.4</b>	<b>J</b>	37	6.3	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Benzo[a]anthracene</b>	<b>27</b>	<b>J</b>	37	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Benzo[a]pyrene</b>	<b>28</b>	<b>J</b>	37	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Benzo[b]fluoranthene</b>	<b>49</b>		37	8.1	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Benzo[g,h,i]perylene</b>	<b>17</b>	<b>J</b>	37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Benzo[k]fluoranthene</b>	<b>13</b>	<b>J</b>	37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Carbazole	<190		190	94	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Chrysene</b>	<b>43</b>		37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Fluoranthene</b>	<b>61</b>		37	7.0	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-1(0-1)-030216**

**Lab Sample ID: 500-108244-8**

**Date Collected: 03/02/16 10:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.2**

**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>20</b>	<b>J</b>	37	9.7	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Phenanthrene</b>	<b>120</b>		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
Phenol	<190		190	83	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	1
<b>Pyrene</b>	<b>46</b>		37	7.5	ug/Kg	☼	03/05/16 16:34	03/06/16 21:44	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	50		35 - 137				03/05/16 16:34	03/06/16 21:44	1
2-Fluorobiphenyl	51		25 - 119				03/05/16 16:34	03/06/16 21:44	1
2-Fluorophenol	86		25 - 110				03/05/16 16:34	03/06/16 21:44	1
Nitrobenzene-d5	36		25 - 115				03/05/16 16:34	03/06/16 21:44	1
Phenol-d5	60		31 - 110				03/05/16 16:34	03/06/16 21:44	1
Terphenyl-d14	78		36 - 134				03/05/16 16:34	03/06/16 21:44	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		03/06/16 12:10	03/07/16 11:32	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:32	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:32	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:32	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:32	1
<b>Zinc</b>	<b>0.24</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Barium</b>	<b>0.051</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 15:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 15:52	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Iron</b>	<b>7.8</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Lead</b>	<b>0.053</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 15:52	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 15:52	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-1(0-1)-030216**

**Lab Sample ID: 500-108244-8**

**Date Collected: 03/02/16 10:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.2**

**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		03/06/16 11:11	03/08/16 15:52	1
<b>Zinc</b>	<b>0.29</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 15:52	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	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Arsenic</b>	<b>1.9</b>		0.58	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Barium</b>	<b>11</b>		0.58	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.050	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Cadmium</b>	<b>0.45</b>		0.12	0.034	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Calcium</b>	<b>77000</b>		120	38	mg/Kg	☼	03/03/16 15:37	03/04/16 18:40	10
<b>Chromium</b>	<b>3.7</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Cobalt</b>	<b>1.3</b>		0.29	0.066	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Copper</b>	<b>4.2</b>		0.58	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Iron</b>	<b>5100</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Lead</b>	<b>66</b>		0.29	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Magnesium</b>	<b>35000</b>		5.8	2.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Manganese</b>	<b>120</b>		0.58	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Nickel</b>	<b>4.2</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Potassium</b>	<b>200</b>	<b>B</b>	29	4.8	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Selenium</b>	<b>0.44</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Sodium</b>	<b>330</b>	<b>B</b>	58	7.7	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Vanadium</b>	<b>4.8</b>		0.29	0.085	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	1
<b>Zinc</b>	<b>54</b>		1.2	0.37	mg/Kg	☼	03/03/16 15:37	03/04/16 17:12	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		03/05/16 16:15	03/09/16 12:25	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		03/05/16 16:15	03/07/16 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>27</b>		18	9.2	ug/Kg	☼	03/03/16 16:15	03/04/16 10:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.48</b>		0.200	0.200	SU			03/03/16 14:40	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-2(0-1)-030216**

**Lab Sample ID: 500-108244-9**

**Date Collected: 03/02/16 10:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/04/16 02:22	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:22	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/04/16 02:22	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:22	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:22	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:22	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/04/16 02:22	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/04/16 02:22	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/04/16 02:22	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:22	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/04/16 02:22	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/04/16 02:22	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/04/16 02:22	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/04/16 02:22	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/04/16 02:22	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/04/16 02:22	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/04/16 02:22	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:22	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/04/16 02:22	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/04/16 02:22	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/04/16 02:22	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:22	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/04/16 02:22	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:22	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/04/16 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 02:22	1
Dibromofluoromethane	103		75 - 120		03/04/16 02:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/04/16 02:22	1
Toluene-d8 (Surr)	108		75 - 122		03/04/16 02:22	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	☼	03/05/16 16:34	03/06/16 22:13	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-2(0-1)-030216**

**Lab Sample ID: 500-108244-9**

**Date Collected: 03/02/16 10:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<390		390	90	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Anthracene	<39		39	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Benzo[a]anthracene</b>	<b>19 J</b>		39	5.3	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Benzo[a]pyrene</b>	<b>25 J</b>		39	7.7	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Benzo[b]fluoranthene</b>	<b>43</b>		39	8.6	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Benzo[g,h,i]perylene</b>	<b>17 J</b>		39	13	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>90 J</b>		200	72	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Carbazole	<200		200	99	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Chrysene</b>	<b>29 J</b>		39	11	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Dibenz(a,h)anthracene	<39		39	7.7	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Fluoranthene</b>	<b>39</b>		39	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Fluorene	<39		39	5.6	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-2(0-1)-030216**

**Lab Sample ID: 500-108244-9**

**Date Collected: 03/02/16 10:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>16</b>	<b>J</b>	39	10	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Isophorone	<200		200	45	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Phenanthrene</b>	<b>67</b>		39	5.5	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
Phenol	<200		200	88	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Pyrene</b>	<b>36</b>	<b>J</b>	39	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 22:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	76		35 - 137				03/05/16 16:34	03/06/16 22:13	1
<i>2-Fluorobiphenyl</i>	80		25 - 119				03/05/16 16:34	03/06/16 22:13	1
<i>2-Fluorophenol</i>	86		25 - 110				03/05/16 16:34	03/06/16 22:13	1
<i>Nitrobenzene-d5</i>	73		25 - 115				03/05/16 16:34	03/06/16 22:13	1
<i>Phenol-d5</i>	87		31 - 110				03/05/16 16:34	03/06/16 22:13	1
<i>Terphenyl-d14</i>	83		36 - 134				03/05/16 16:34	03/06/16 22:13	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		03/06/16 12:10	03/07/16 11:38	1
<b>Barium</b>	<b>0.093</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:38	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:38	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:38	1
<b>Zinc</b>	<b>0.12</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:38	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		03/06/16 11:11	03/08/16 15:59	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:11	03/08/16 15:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 15:59	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 15:59	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:59	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:59	1
<b>Iron</b>	<b>6.9</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 15:59	1
<b>Lead</b>	<b>0.056</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 15:59	1
<b>Manganese</b>	<b>0.096</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 15:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 15:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-2(0-1)-030216**

**Lab Sample ID: 500-108244-9**

**Date Collected: 03/02/16 10:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.9**

**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		03/06/16 11:11	03/08/16 15:59	1
<b>Zinc</b>	<b>0.27</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 15:59	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	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Arsenic</b>	<b>1.2</b>		0.59	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Barium</b>	<b>11</b>		0.59	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.23	0.051	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.034	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Calcium</b>	<b>22000</b>		12	3.8	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Chromium</b>	<b>3.7</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Cobalt</b>	<b>0.91</b>		0.29	0.066	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Copper</b>	<b>2.7</b>		0.59	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Iron</b>	<b>2300</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Lead</b>	<b>11</b>		0.29	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Magnesium</b>	<b>13000</b>		5.9	2.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Manganese</b>	<b>55</b>		0.59	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Nickel</b>	<b>3.0</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Potassium</b>	<b>230</b>	<b>B</b>	29	4.8	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Sodium</b>	<b>510</b>	<b>B</b>	59	7.7	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Vanadium</b>	<b>4.9</b>		0.29	0.086	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	1
<b>Zinc</b>	<b>19</b>		1.2	0.37	mg/Kg	☼	03/03/16 15:37	03/04/16 17:17	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		03/05/16 16:15	03/07/16 21:53	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		03/05/16 16:15	03/07/16 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		18	9.3	ug/Kg	☼	03/03/16 16:15	03/04/16 10:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.27</b>		0.200	0.200	SU			03/03/16 14:48	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-3(0-1)-030216**

**Lab Sample ID: 500-108244-10**

**Date Collected: 03/02/16 10:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 85.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/04/16 02:47	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 02:47	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/04/16 02:47	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 02:47	1
Bromomethane	<5.8		5.8	2.2	ug/Kg	☼		03/04/16 02:47	1
Carbon disulfide	<5.8		5.8	2.2	ug/Kg	☼		03/04/16 02:47	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 02:47	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/04/16 02:47	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 02:47	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 02:47	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 02:47	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/04/16 02:47	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 02:47	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/04/16 02:47	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 02:47	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 02:47	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 02:47	1
Ethylbenzene	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 02:47	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/04/16 02:47	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/04/16 02:47	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 02:47	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 02:47	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/04/16 02:47	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 02:47	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/04/16 02:47	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 02:47	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 02:47	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 02:47	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 02:47	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 02:47	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/04/16 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/04/16 02:47	1
Dibromofluoromethane	102		75 - 120		03/04/16 02:47	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/04/16 02:47	1
Toluene-d8 (Surr)	108		75 - 122		03/04/16 02:47	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	☼	03/05/16 16:34	03/06/16 17:51	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-3(0-1)-030216**

**Lab Sample ID: 500-108244-10**

**Date Collected: 03/02/16 10:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 85.5**

**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	84	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Carbazole	<180		180	91	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Chrysene	<36		36	10	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-3(0-1)-030216**

**Lab Sample ID: 500-108244-10**

**Date Collected: 03/02/16 10:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 85.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.5	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
<b>Phenanthrene</b>	<b>16</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Phenol	<180		180	81	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Pyrene	<36		36	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137				03/05/16 16:34	03/06/16 17:51	1
2-Fluorobiphenyl	60		25 - 119				03/05/16 16:34	03/06/16 17:51	1
2-Fluorophenol	68		25 - 110				03/05/16 16:34	03/06/16 17:51	1
Nitrobenzene-d5	56		25 - 115				03/05/16 16:34	03/06/16 17:51	1
Phenol-d5	69		31 - 110				03/05/16 16:34	03/06/16 17:51	1
Terphenyl-d14	68		36 - 134				03/05/16 16:34	03/06/16 17:51	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		03/06/16 12:10	03/07/16 11:43	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 11:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 11:43	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 11:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 11:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 11:43	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 11:43	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 11:43	1
<b>Zinc</b>	<b>0.25</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:05	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Chromium</b>	<b>0.052</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Iron</b>	<b>25</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Lead</b>	<b>0.030</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Manganese</b>	<b>0.088</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:05	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-3(0-1)-030216**

**Lab Sample ID: 500-108244-10**

**Date Collected: 03/02/16 10:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 85.5**

**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		03/06/16 11:11	03/08/16 16:05	1
<b>Zinc</b>	<b>0.31</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:05	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	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Arsenic</b>	<b>1.5</b>		0.57	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Barium</b>	<b>12</b>		0.57	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Beryllium</b>	<b>0.23</b>		0.23	0.049	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.033	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Calcium</b>	<b>3900</b>		11	3.7	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Chromium</b>	<b>5.2</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Cobalt</b>	<b>1.2</b>		0.28	0.064	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Copper</b>	<b>2.2</b>		0.57	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Iron</b>	<b>3300</b>	<b>B</b>	11	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Lead</b>	<b>4.6</b>		0.28	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Magnesium</b>	<b>2400</b>		5.7	2.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Manganese</b>	<b>23</b>		0.57	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Nickel</b>	<b>3.8</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Potassium</b>	<b>160</b>	<b>B</b>	28	4.6	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Sodium</b>	<b>190</b>	<b>B</b>	57	7.5	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Vanadium</b>	<b>8.8</b>		0.28	0.083	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1
<b>Zinc</b>	<b>28</b>		1.1	0.36	mg/Kg	☼	03/03/16 15:37	03/04/16 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/03/16 16:15	03/04/16 10:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.85</b>		0.200	0.200	SU			03/03/16 14:56	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216**

**Lab Sample ID: 500-108244-11**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/04/16 03:13	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:13	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/04/16 03:13	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:13	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:13	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:13	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/04/16 03:13	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/04/16 03:13	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/04/16 03:13	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:13	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 03:13	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 03:13	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 03:13	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/04/16 03:13	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/04/16 03:13	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:13	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/04/16 03:13	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:13	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/04/16 03:13	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 03:13	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 03:13	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:13	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 03:13	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:13	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/04/16 03:13	1
Dibromofluoromethane	104		75 - 120		03/04/16 03:13	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/04/16 03:13	1
Toluene-d8 (Surr)	117		75 - 122		03/04/16 03:13	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	☼	03/05/16 16:34	03/06/16 18:20	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216**

**Lab Sample ID: 500-108244-11**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.9**

**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	82	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Anthracene	<35		35	6.0	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Benzo[a]anthracene	<35		35	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Benzo[a]pyrene	<35		35	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Benzo[b]fluoranthene	<35		35	7.7	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Benzo[g,h,i]perylene	<35		35	12	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Benzo[k]fluoranthene	<35		35	11	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Carbazole	<180		180	89	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Chrysene	<35		35	9.7	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Dibenz(a,h)anthracene	<35		35	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Fluoranthene	<35		35	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216**

**Lab Sample ID: 500-108244-11**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	9.3	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Isophorone	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Phenanthrene	<35		35	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Phenol	<180		180	79	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1
Pyrene	<35		35	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		35 - 137	03/05/16 16:34	03/06/16 18:20	1
2-Fluorobiphenyl	68		25 - 119	03/05/16 16:34	03/06/16 18:20	1
2-Fluorophenol	76		25 - 110	03/05/16 16:34	03/06/16 18:20	1
Nitrobenzene-d5	62		25 - 115	03/05/16 16:34	03/06/16 18:20	1
Phenol-d5	79		31 - 110	03/05/16 16:34	03/06/16 18:20	1
Terphenyl-d14	77		36 - 134	03/05/16 16:34	03/06/16 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
<b>Iron</b>	<b>0.47</b>		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:10	1
<b>Manganese</b>	<b>0.099</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:10	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:10	1
<b>Zinc</b>	<b>0.24</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:10	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		03/06/16 11:11	03/08/16 16:12	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:12	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:12	1
<b>Iron</b>	<b>4.8</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:12	1
<b>Lead</b>	<b>0.0078</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:12	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216**

**Lab Sample ID: 500-108244-11**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.9**

**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		03/06/16 11:11	03/08/16 16:12	1
<b>Zinc</b>	<b>0.27</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:12	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	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Arsenic</b>	<b>0.75</b>		0.53	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Barium</b>	<b>11</b>		0.53	0.098	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Beryllium</b>	<b>0.097</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Cadmium</b>	<b>0.060</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Calcium</b>	<b>550</b>		11	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Chromium</b>	<b>3.7</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Cobalt</b>	<b>0.73</b>		0.27	0.060	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Copper</b>	<b>1.6</b>		0.53	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Iron</b>	<b>2500</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Lead</b>	<b>3.9</b>		0.27	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Magnesium</b>	<b>420</b>		5.3	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Manganese</b>	<b>23</b>		0.53	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Nickel</b>	<b>2.4</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Potassium</b>	<b>110</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Sodium</b>	<b>76</b>	<b>B</b>	53	7.0	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Vanadium</b>	<b>5.1</b>		0.27	0.078	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1
<b>Zinc</b>	<b>13</b>		1.1	0.34	mg/Kg	☼	03/03/16 15:37	03/04/16 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>20</b>		17	8.8	ug/Kg	☼	03/03/16 16:15	03/04/16 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.86</b>		0.200	0.200	SU			03/03/16 15:04	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216D**

**Lab Sample ID: 500-108244-12**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/04/16 03:38	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:38	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/04/16 03:38	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:38	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/04/16 03:38	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/04/16 03:38	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:38	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/04/16 03:38	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:38	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:38	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/04/16 03:38	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:38	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/04/16 03:38	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:38	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 03:38	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 03:38	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 03:38	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/04/16 03:38	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/04/16 03:38	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 03:38	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:38	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/04/16 03:38	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 03:38	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/04/16 03:38	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 03:38	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 03:38	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 03:38	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 03:38	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 03:38	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 03:38	1
Dibromofluoromethane	100		75 - 120		03/04/16 03:38	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		03/04/16 03:38	1
Toluene-d8 (Surr)	107		75 - 122		03/04/16 03:38	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	☼	03/05/16 16:34	03/06/16 18:49	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216D**

**Lab Sample ID: 500-108244-12**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.3**

**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	84	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>68 J</b>		190	68	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Carbazole	<190		190	92	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Chrysene	<37		37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216D**

**Lab Sample ID: 500-108244-12**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.3**

**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	9.6	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Phenol	<190		190	82	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Pyrene	<37		37	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/05/16 16:34	03/06/16 18:49	1
2-Fluorobiphenyl	78		25 - 119				03/05/16 16:34	03/06/16 18:49	1
2-Fluorophenol	86		25 - 110				03/05/16 16:34	03/06/16 18:49	1
Nitrobenzene-d5	73		25 - 115				03/05/16 16:34	03/06/16 18:49	1
Phenol-d5	87		31 - 110				03/05/16 16:34	03/06/16 18:49	1
Terphenyl-d14	86		36 - 134				03/05/16 16:34	03/06/16 18:49	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		03/06/16 12:10	03/07/16 12:15	1
<b>Barium</b>	<b>0.090</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
<b>Iron</b>	<b>0.28</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:15	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:15	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:15	1
<b>Zinc</b>	<b>0.92</b>		0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:19	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
<b>Iron</b>	<b>4.4</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:19	1
<b>Lead</b>	<b>0.0078</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:19	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:19	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-4(0-1)-030216D**

**Lab Sample ID: 500-108244-12**

**Date Collected: 03/02/16 10:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 89.3**

**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		03/06/16 11:11	03/08/16 16:19	1
<b>Zinc</b>	<b>0.049</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Arsenic</b>	<b>0.89</b>		0.52	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Barium</b>	<b>10</b>		0.52	0.096	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Beryllium</b>	<b>0.15</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Cadmium</b>	<b>0.063</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Calcium</b>	<b>640</b>		10	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Chromium</b>	<b>3.2</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Cobalt</b>	<b>0.71</b>		0.26	0.059	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Copper</b>	<b>1.5</b>		0.52	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Iron</b>	<b>2400</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Lead</b>	<b>4.0</b>		0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Magnesium</b>	<b>450</b>		5.2	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Manganese</b>	<b>24</b>		0.52	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Nickel</b>	<b>2.4</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Potassium</b>	<b>110</b>	<b>B</b>	26	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Sodium</b>	<b>86</b>	<b>B</b>	52	6.9	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Vanadium</b>	<b>4.6</b>		0.26	0.076	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1
<b>Zinc</b>	<b>14</b>		1.0	0.33	mg/Kg	☼	03/03/16 15:37	03/04/16 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:02	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		03/05/16 16:15	03/07/16 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J</b>	18	9.6	ug/Kg	☼	03/03/16 16:15	03/04/16 10:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.16</b>		0.200	0.200	SU			03/03/16 15:12	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-5(0-1)-030216**

**Lab Sample ID: 500-108244-13**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/04/16 04:03	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 04:03	1
Bromodichloromethane	<5.5		5.5	0.94	ug/Kg	☼		03/04/16 04:03	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 04:03	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 04:03	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 04:03	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/04/16 04:03	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/04/16 04:03	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/04/16 04:03	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 04:03	1
1,2-Dichloropropane	<5.5		5.5	1.5	ug/Kg	☼		03/04/16 04:03	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/04/16 04:03	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/04/16 04:03	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/04/16 04:03	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/04/16 04:03	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 04:03	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/04/16 04:03	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 04:03	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/04/16 04:03	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/04/16 04:03	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/04/16 04:03	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 04:03	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/04/16 04:03	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 04:03	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/04/16 04:03	1
Dibromofluoromethane	104		75 - 120		03/04/16 04:03	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/04/16 04:03	1
Toluene-d8 (Surr)	105		75 - 122		03/04/16 04:03	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	☼	03/05/16 16:34	03/06/16 19:18	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-5(0-1)-030216**

**Lab Sample ID: 500-108244-13**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.1**

**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	☼	03/05/16 16:34	03/06/16 19:18	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>2-Methylnaphthalene</b>	<b>9.6</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Acenaphthylene</b>	<b>24</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Anthracene</b>	<b>17</b>	<b>J</b>	36	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Benzo[a]anthracene</b>	<b>130</b>		36	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Benzo[a]pyrene</b>	<b>150</b>		36	7.0	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Benzo[b]fluoranthene</b>	<b>240</b>		36	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Benzo[g,h,i]perylene</b>	<b>83</b>		36	12	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Benzo[k]fluoranthene</b>	<b>84</b>		36	11	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Carbazole	<180		180	91	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Chrysene</b>	<b>170</b>		36	9.9	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	<b>J</b>	36	7.0	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Fluoranthene</b>	<b>260</b>		36	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-5(0-1)-030216**

**Lab Sample ID: 500-108244-13**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 90.1**

**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>100</b>		36	9.4	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Phenanthrene</b>	<b>180</b>		36	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
Phenol	<180		180	81	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	1
<b>Pyrene</b>	<b>210</b>		36	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 19:18	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	70		35 - 137				03/05/16 16:34	03/06/16 19:18	1
2-Fluorobiphenyl	80		25 - 119				03/05/16 16:34	03/06/16 19:18	1
2-Fluorophenol	81		25 - 110				03/05/16 16:34	03/06/16 19:18	1
Nitrobenzene-d5	71		25 - 115				03/05/16 16:34	03/06/16 19:18	1
Phenol-d5	84		31 - 110				03/05/16 16:34	03/06/16 19:18	1
Terphenyl-d14	86		36 - 134				03/05/16 16:34	03/06/16 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Cadmium</b>	<b>0.0047</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Iron</b>	<b>0.26</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Manganese</b>	<b>0.98</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:20	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:20	1
<b>Zinc</b>	<b>0.27</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J ^</b>	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Chromium</b>	<b>0.037</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Iron</b>	<b>33</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: BDS-5(0-1)-030216**

**Lab Sample ID: 500-108244-13**

Date Collected: 03/02/16 10:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 90.1

## 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		03/06/16 11:11	03/08/16 16:26	1
<b>Zinc</b>	<b>0.77</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:26	1

## Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Arsenic</b>	<b>3.3</b>		0.51	0.23	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Barium</b>	<b>22</b>		0.51	0.093	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Beryllium</b>	<b>0.49</b>		0.20	0.044	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Cadmium</b>	<b>0.45</b>		0.10	0.029	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Calcium</b>	<b>26000</b>		10	3.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Chromium</b>	<b>5.0</b>	<b>B</b>	0.51	0.087	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Cobalt</b>	<b>2.3</b>		0.25	0.057	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Copper</b>	<b>6.3</b>		0.51	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Iron</b>	<b>6500</b>	<b>B</b>	10	3.9	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Lead</b>	<b>32</b>		0.25	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Magnesium</b>	<b>16000</b>		5.1	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Manganese</b>	<b>96</b>		0.51	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Nickel</b>	<b>7.2</b>	<b>B</b>	0.51	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Potassium</b>	<b>300</b>	<b>B</b>	25	4.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Selenium</b>	<b>0.36</b>	<b>J</b>	0.51	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Sodium</b>	<b>480</b>	<b>B</b>	51	6.7	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Vanadium</b>	<b>8.7</b>		0.25	0.074	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	1
<b>Zinc</b>	<b>80</b>		1.0	0.32	mg/Kg	☼	03/03/16 15:37	03/04/16 17:34	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		03/05/16 16:15	03/07/16 22:03	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		03/05/16 16:15	03/07/16 18:06	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>31</b>		18	9.3	ug/Kg	☼	03/03/16 16:15	03/04/16 10:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.92</b>		0.200	0.200	SU			03/03/16 15:19	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total metals		TCLP/SPLP metals		PH						Comments	
<u>IDOT-040</u>																			
Project Location/State		Lab PM		Date		Time													
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>																	
Sampler		Sample ID																	
<u>T. Walls</u>																			
<u>1</u>	<u>MS/MSD</u>	<u>R2-1(0-1)-030216</u>	<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>2</u>		<u>R2-1(0-1)-030216D</u>		<u>0840</u>															
<u>3</u>		<u>RC-1(0-1)-030216</u>		<u>0855</u>															
<u>4</u>		<u>RC-2(0-1)-030216</u>		<u>0905</u>															
<u>5</u>		<u>RC-3(0-1)-030216</u>		<u>0920</u>															
<u>6</u>		<u>RC-4(0-1)-030216</u>		<u>0940</u>															
<u>7</u>		<u>RC-5(0-1)-030216</u>		<u>0950</u>															
<u>8</u>		<u>BDS-1(0-1)-030216</u>		<u>1000</u>															
<u>9</u>		<u>BDS-2(0-1)-030216</u>		<u>1010</u>															
<u>10</u>		<u>BDS-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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: \_\_\_\_\_



# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>Western</u>													
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	
<u>IDOT-040</u>				Date	Time								
Project Location/State		Lab PM											
<u>Braidwood &amp; Cule Park / IL</u>		<u>D. Wright</u>											
Sampler													
<u>T. Walls</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments	
<u>11</u>		<u>BDS-4(0-1)-030216</u>	<u>3-2-16</u>	<u>1035</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>12</u>		<u>BDS-4(0-1)-030216D</u>		<u>1035</u>									
<u>13</u>		<u>BDS-5(0-1)-030216</u>		<u>1050</u>									
<u>14</u>		<u>WL9-1(0-1)-030216</u>		<u>1100</u>									
<u>15</u>		<u>WL9-2(0-1)-030216</u>		<u>1115</u>									
<u>16</u>		<u>WL9-3(0-1)-030216</u>		<u>1125</u>									
<u>17</u>		<u>R10-1(0-1)-030216</u>		<u>1135</u>									
<u>18</u>		<u>F11-1(0-1)-030216</u>		<u>1235</u>									
<u>19</u>		<u>F11-2(0-1)-030216</u>		<u>1245</u>									
<u>20</u>		<u>F11-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1250</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>JA</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

24100 block of W. IL 113 (ISGS Site No. 2948-9)

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

County: Will Township: Custer

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

Latitude: 41.260684820 Longitude: -88.191478550

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260684820 Longitude: -88.191478550

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 WL9-1 THROUGH WL9-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-9. SEE FIGURE 3-2 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: 500-108244-1.  
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

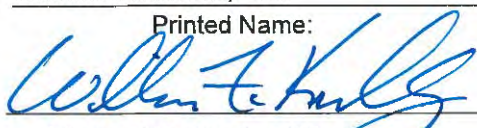
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2948-9**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	WL9-1(0-1)-030216	WL9-2(0-1)-030216	WL9-3(0-1)-030216	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	
Location ID	WL9-1	WL9-2	WL9-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-9	2948-9	2948-9	
<b>Parameter</b>				
Laboratory pH	7.64	7.23	7.86	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>			
<b>SVOCs (ug/kg)</b>				
Benzo(a)anthracene	ND	18 J	32 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	25 J	40	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	31 J	67	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	15 J	21 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	2.1 J	1.4 J	2.3 J	11.3 / 13
Barium, Total	8.8	8.9	28	1500
Beryllium, Total	0.14 J	0.19 J	0.28	22
Cadmium, Total	ND	0.12	0.24	5.2
Calcium, Total	690 J-	29000 J-	84000 J-	---
Chromium, Total	5.2 B	4.1 B	4.4 B	21
Iron, Total	5300 J	3900 J	4600 J	15000 / 15900
Lead, Total	3.9 J	21 J	49 J	107
Manganese, Total	27 J	77 J	120 J	630 / 636
Mercury, Total	0.012 J	0.011 J	0.023	0.89
Nickel, Total	3.9 B	3.5 B	5.5 B	100
Potassium, Total	120 B	210 B	340 B	---
Selenium, Total	0.28 J	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	12	19	55	5100
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.091 J	0.1 J	0.19 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.0032 J	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	0.3 J	ND	0.31 J	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.16	0.83	0.94	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	1.1	0.23 J	0.38 J	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.012 J	ND	ND	0.05
Barium, SPLP	0.058 J	ND	0.1 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.023 J	0.012 J	0.019 J	0.1
Iron, SPLP	26 J+	9.5 J+	19 J+	5
Lead, SPLP	0.019	0.042	0.096	0.0075
Manganese, SPLP	0.074	0.055	0.16	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.014 J	ND	0.02 J	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-9**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

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

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-1(0-1)-030216**

**Lab Sample ID: 500-108244-14**

**Date Collected: 03/02/16 11:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/04/16 04:28	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 04:28	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/04/16 04:28	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 04:28	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/04/16 04:28	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/04/16 04:28	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 04:28	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/04/16 04:28	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 04:28	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 04:28	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 04:28	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/04/16 04:28	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 04:28	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/04/16 04:28	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 04:28	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 04:28	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 04:28	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 04:28	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/04/16 04:28	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/04/16 04:28	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 04:28	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 04:28	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/04/16 04:28	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/04/16 04:28	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/04/16 04:28	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/04/16 04:28	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/04/16 04:28	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/04/16 04:28	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/04/16 04:28	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/04/16 04:28	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 04:28	1
Dibromofluoromethane	95		75 - 120		03/04/16 04:28	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/04/16 04:28	1
Toluene-d8 (Surr)	105		75 - 122		03/04/16 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-1(0-1)-030216**

**Lab Sample ID: 500-108244-14**

**Date Collected: 03/02/16 11:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.9**

**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	☼	03/05/16 16:34	03/06/16 19:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Carbazole	<190		190	92	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Chrysene	<37		37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-1(0-1)-030216**

**Lab Sample ID: 500-108244-14**

**Date Collected: 03/02/16 11:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Isophorone	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Phenol	<190		190	82	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Pyrene	<37		37	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				03/05/16 16:34	03/06/16 19:47	1
2-Fluorobiphenyl	66		25 - 119				03/05/16 16:34	03/06/16 19:47	1
2-Fluorophenol	72		25 - 110				03/05/16 16:34	03/06/16 19:47	1
Nitrobenzene-d5	61		25 - 115				03/05/16 16:34	03/06/16 19:47	1
Phenol-d5	72		31 - 110				03/05/16 16:34	03/06/16 19:47	1
Terphenyl-d14	68		36 - 134				03/05/16 16:34	03/06/16 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
<b>Barium</b>	<b>0.091</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
<b>Iron</b>	<b>0.30</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:26	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:26	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:26	1
<b>Zinc</b>	<b>1.1</b>		0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Barium</b>	<b>0.058</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:32	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Chromium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Iron</b>	<b>26</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Manganese</b>	<b>0.074</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-1(0-1)-030216**

**Lab Sample ID: 500-108244-14**

**Date Collected: 03/02/16 11:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 88.9**

**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		03/06/16 11:11	03/08/16 16:32	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:32	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	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Arsenic</b>	<b>2.1</b>		0.55	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Barium</b>	<b>8.8</b>		0.55	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Calcium</b>	<b>690</b>		11	3.5	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Chromium</b>	<b>5.2</b>	<b>B</b>	0.55	0.094	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Cobalt</b>	<b>1.4</b>		0.27	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Copper</b>	<b>1.7</b>		0.55	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Iron</b>	<b>5300</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Lead</b>	<b>3.9</b>		0.27	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Magnesium</b>	<b>620</b>		5.5	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Manganese</b>	<b>27</b>		0.55	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Nickel</b>	<b>3.9</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Potassium</b>	<b>120</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Sodium</b>	<b>140</b>	<b>B</b>	55	7.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Vanadium</b>	<b>11</b>		0.27	0.080	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	1
<b>Zinc</b>	<b>12</b>		1.1	0.35	mg/Kg	☼	03/03/16 15:37	03/04/16 17:39	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		03/05/16 16:15	03/07/16 22:05	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		03/05/16 16:15	03/07/16 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	18	9.2	ug/Kg	☼	03/03/16 16:15	03/04/16 10:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.64</b>		0.200	0.200	SU			03/03/16 15:27	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-2(0-1)-030216**

**Lab Sample ID: 500-108244-15**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/04/16 04:53	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/04/16 04:53	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 04:53	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 04:53	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/04/16 04:53	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 04:53	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 04:53	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/04/16 04:53	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/04/16 04:53	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 04:53	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 04:53	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 04:53	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 04:53	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/04/16 04:53	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/04/16 04:53	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 04:53	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/04/16 04:53	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 04:53	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 04:53	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 04:53	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 04:53	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 04:53	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 04:53	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 04:53	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 04:53	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 04:53	1
Dibromofluoromethane	101		75 - 120		03/04/16 04:53	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		03/04/16 04:53	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 04:53	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	☼	03/05/16 16:34	03/06/16 22:43	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-2(0-1)-030216**

**Lab Sample ID: 500-108244-15**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<360		360	82	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
2-Nitrophenol	<360		360	84	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Benzo[a]anthracene</b>	<b>18 J</b>		36	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Benzo[a]pyrene</b>	<b>25 J</b>		36	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Benzo[b]fluoranthene</b>	<b>31 J</b>		36	7.7	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Benzo[g,h,i]perylene</b>	<b>15 J</b>		36	12	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Benzo[k]fluoranthene</b>	<b>15 J</b>		36	11	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Carbazole	<180		180	89	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Chrysene</b>	<b>26 J</b>		36	9.8	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Dibenz(a,h)anthracene	<36		36	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Fluoranthene</b>	<b>33 J</b>		36	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-2(0-1)-030216**

**Lab Sample ID: 500-108244-15**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>15</b>	<b>J</b>	36	9.3	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Isophorone	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Phenanthrene</b>	<b>35</b>	<b>J</b>	36	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
Phenol	<180		180	79	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Pyrene</b>	<b>43</b>		36	7.1	ug/Kg	☼	03/05/16 16:34	03/06/16 22:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	64		35 - 137				03/05/16 16:34	03/06/16 22:43	1
2-Fluorobiphenyl	69		25 - 119				03/05/16 16:34	03/06/16 22:43	1
2-Fluorophenol	78		25 - 110				03/05/16 16:34	03/06/16 22:43	1
Nitrobenzene-d5	64		25 - 115				03/05/16 16:34	03/06/16 22:43	1
Phenol-d5	79		31 - 110				03/05/16 16:34	03/06/16 22:43	1
Terphenyl-d14	83		36 - 134				03/05/16 16:34	03/06/16 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:31	1
<b>Manganese</b>	<b>0.83</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:31	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:31	1
<b>Zinc</b>	<b>0.23</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:11	03/08/16 16:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 16:39	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 16:39	1
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
<b>Iron</b>	<b>9.5</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 16:39	1
<b>Lead</b>	<b>0.042</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 16:39	1
<b>Manganese</b>	<b>0.055</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 16:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 16:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-2(0-1)-030216**

**Lab Sample ID: 500-108244-15**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.8**

**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		03/06/16 11:11	03/08/16 16:39	1
<b>Zinc</b>	<b>1.2</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 16:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Arsenic</b>	<b>1.4</b>		0.52	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Barium</b>	<b>8.9</b>		0.52	0.095	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Beryllium</b>	<b>0.19</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Cadmium</b>	<b>0.12</b>		0.10	0.030	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Calcium</b>	<b>29000</b>		10	3.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Chromium</b>	<b>4.1</b>	<b>B</b>	0.52	0.089	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Cobalt</b>	<b>1.3</b>		0.26	0.059	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Copper</b>	<b>2.7</b>		0.52	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Iron</b>	<b>3900</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Lead</b>	<b>21</b>		0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Magnesium</b>	<b>18000</b>		5.2	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Manganese</b>	<b>77</b>		0.52	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Nickel</b>	<b>3.5</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Potassium</b>	<b>210</b>	<b>B</b>	26	4.2	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Sodium</b>	<b>280</b>	<b>B</b>	52	6.8	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Vanadium</b>	<b>6.5</b>		0.26	0.076	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1
<b>Zinc</b>	<b>19</b>		1.0	0.33	mg/Kg	☼	03/03/16 15:37	03/04/16 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:10	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		03/05/16 16:15	03/07/16 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>11</b>	<b>J</b>	18	9.4	ug/Kg	☼	03/03/16 16:15	03/04/16 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.23</b>		0.200	0.200	SU			03/03/16 15:35	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-3(0-1)-030216**

**Lab Sample ID: 500-108244-16**

**Date Collected: 03/02/16 11:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/04/16 05:18	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 05:18	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/04/16 05:18	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 05:18	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 05:18	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/04/16 05:18	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 05:18	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 05:18	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/04/16 05:18	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/04/16 05:18	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 05:18	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 05:18	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 05:18	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/04/16 05:18	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/04/16 05:18	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/04/16 05:18	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/04/16 05:18	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/04/16 05:18	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/04/16 05:18	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/04/16 05:18	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 05:18	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/04/16 05:18	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/04/16 05:18	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/04/16 05:18	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/04/16 05:18	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/04/16 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122		03/04/16 05:18	1
Dibromofluoromethane	102		75 - 120		03/04/16 05:18	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/04/16 05:18	1
Toluene-d8 (Surr)	95		75 - 122		03/04/16 05:18	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	☼	03/05/16 16:34	03/06/16 23:12	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-3(0-1)-030216**

**Lab Sample ID: 500-108244-16**

**Date Collected: 03/02/16 11:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Acenaphthylene</b>	<b>16 J</b>		37	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Benzo[a]anthracene</b>	<b>32 J</b>		37	5.0	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Benzo[a]pyrene</b>	<b>40</b>		37	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Benzo[b]fluoranthene</b>	<b>67</b>		37	8.1	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Benzo[g,h,i]perylene</b>	<b>22 J</b>		37	12	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Benzo[k]fluoranthene</b>	<b>21 J</b>		37	11	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Carbazole	<190		190	93	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Chrysene</b>	<b>45</b>		37	10	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Fluoranthene</b>	<b>65</b>		37	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-3(0-1)-030216**

**Lab Sample ID: 500-108244-16**

**Date Collected: 03/02/16 11:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>21</b>	<b>J</b>	37	9.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Isophorone	<190		190	42	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Phenanthrene</b>	<b>76</b>		37	5.2	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Phenol	<190		190	83	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
<b>Pyrene</b>	<b>56</b>		37	7.4	ug/Kg	☼	03/05/16 16:34	03/06/16 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/05/16 16:34	03/06/16 23:12	1
2-Fluorobiphenyl	74		25 - 119				03/05/16 16:34	03/06/16 23:12	1
2-Fluorophenol	77		25 - 110				03/05/16 16:34	03/06/16 23:12	1
Nitrobenzene-d5	63		25 - 115				03/05/16 16:34	03/06/16 23:12	1
Phenol-d5	80		31 - 110				03/05/16 16:34	03/06/16 23:12	1
Terphenyl-d14	83		36 - 134				03/05/16 16:34	03/06/16 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:36	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
<b>Iron</b>	<b>0.31</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:36	1
<b>Manganese</b>	<b>0.94</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:36	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:36	1
<b>Zinc</b>	<b>0.38</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 17:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Iron</b>	<b>19</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Lead</b>	<b>0.096</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 17:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: WL9-3(0-1)-030216**

**Lab Sample ID: 500-108244-16**

**Date Collected: 03/02/16 11:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.2**

**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		03/06/16 11:11	03/08/16 17:02	1
<b>Zinc</b>	<b>0.39</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 17:02	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	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Arsenic</b>	<b>2.3</b>		0.53	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Barium</b>	<b>28</b>		0.53	0.097	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Beryllium</b>	<b>0.28</b>		0.21	0.046	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Cadmium</b>	<b>0.24</b>		0.11	0.031	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Calcium</b>	<b>84000</b>		110	34	mg/Kg	☼	03/03/16 15:37	03/04/16 18:44	10
<b>Chromium</b>	<b>4.4</b>	<b>B</b>	0.53	0.091	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Cobalt</b>	<b>1.9</b>		0.26	0.060	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Copper</b>	<b>4.2</b>		0.53	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Iron</b>	<b>4600</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Lead</b>	<b>49</b>		0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Magnesium</b>	<b>36000</b>		5.3	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Manganese</b>	<b>120</b>		0.53	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Nickel</b>	<b>5.5</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Potassium</b>	<b>340</b>	<b>B</b>	26	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Sodium</b>	<b>270</b>	<b>B</b>	53	7.0	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Vanadium</b>	<b>6.9</b>		0.26	0.077	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1
<b>Zinc</b>	<b>55</b>		1.1	0.33	mg/Kg	☼	03/03/16 15:37	03/04/16 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>23</b>		18	9.5	ug/Kg	☼	03/03/16 16:15	03/04/16 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.86</b>		0.200	0.200	SU			03/03/16 15:43	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter		Total metals		TCLP/SPLP metals		PH		Preservative Key	
<u>Weston</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix								Comments	
<u>IDOT-040</u>															
Project Location/State		Lab PM		Date		Time									
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>													
Sampler		Sample ID		Date		Time									
<u>T. Walls</u>															
<u>1</u>		<u>R2-1(0-1)-030216</u>	<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>2</u>		<u>R2-1(0-1)-030216D</u>		<u>0840</u>											
<u>3</u>		<u>RC-1(0-1)-030216</u>		<u>0855</u>											
<u>4</u>		<u>RC-2(0-1)-030216</u>		<u>0905</u>											
<u>5</u>		<u>RC-3(0-1)-030216</u>		<u>0920</u>											
<u>6</u>		<u>RC-4(0-1)-030216</u>		<u>0940</u>											
<u>7</u>		<u>RC-5(0-1)-030216</u>		<u>0950</u>											
<u>8</u>		<u>BDS-1(0-1)-030216</u>		<u>1000</u>											
<u>9</u>		<u>BDS-2(0-1)-030216</u>		<u>1010</u>											
<u>10</u>		<u>BDS-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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:

# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter										Preservative Key	
<u>Western</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments				
<u>IDOT-040</u>				Date	Time												
Project Location/State <u>Bradwood &amp; Cule Park / IL</u>		Lab PM <u>D. Wright</u>															
Sampler <u>T. Walls</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments					
<u>11</u>		<u>BDS-4(0-1)-030216</u>	<u>3-2-16</u>	<u>1035</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>12</u>		<u>BDS-4(0-1)-030216D</u>		<u>1035</u>													
<u>13</u>		<u>BDS-5(0-1)-030216</u>		<u>1050</u>													
<u>14</u>		<u>WL9-1(0-1)-030216</u>		<u>1100</u>													
<u>15</u>		<u>WL9-2(0-1)-030216</u>		<u>1115</u>													
<u>16</u>		<u>WL9-3(0-1)-030216</u>		<u>1125</u>													
<u>17</u>		<u>R10-1(0-1)-030216</u>		<u>1135</u>													
<u>18</u>		<u>F11-1(0-1)-030216</u>		<u>1235</u>													
<u>19</u>		<u>F11-2(0-1)-030216</u>		<u>1245</u>													
<u>20</u>		<u>F11-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1250</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						

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

Relinquished By <u>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

34321 Essex Road (ISGS Site No. 2948-10)

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

County: Will Township: Custer

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

Latitude: 41.260748086 Longitude: -88.187983748  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260748086 Longitude: -88.187983748

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 R10-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-10. SEE FIGURE 3-2 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: 500-108244-1.  
ALSO SEE FIGURE 4-2 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:

5 May 2016

Date:



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



**Summary Table of ISGS Site No. 2948-10**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R10-1(0-1)-030216	<b>Soil Reference Concentrations</b>
Sample Date	3/2/2016	
Location ID	R10-1	
Depth	0 - 1	
Location Code	2948-10	
Parameter		
Laboratory pH	7.29	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	32 J	900 / 1100 / 1800
Benzo(a)pyrene	45	90 / 1300 / 2100
Benzo(b)fluoranthene	66	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	24 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	2.2 J	11.3 / 13
Barium, Total	11	1500
Beryllium, Total	0.2 J	22
Cadmium, Total	0.079 J	5.2
Calcium, Total	3500 J-	---
Chromium, Total	5.1 B	21
Iron, Total	4300 J	15000 / 15900
Lead, Total	14 J	107
Manganese, Total	35 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.3 B	100
Potassium, Total	180 B	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	23	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.11 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.44 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.014 J	0.05
Barium, SPLP	0.1 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.035	0.1
Iron, SPLP	27 J+	5
Lead, SPLP	0.076	0.0075
Manganese, SPLP	0.12	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.027	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	1.9 B	5

**Summary Table of ISGS Site No. 2948-10**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R10-1(0-1)-030216**

**Lab Sample ID: 500-108244-17**

**Date Collected: 03/02/16 11:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/04/16 05:43	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 05:43	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/04/16 05:43	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 05:43	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 05:43	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 05:43	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/04/16 05:43	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/04/16 05:43	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/04/16 05:43	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/04/16 05:43	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 05:43	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/04/16 05:43	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/04/16 05:43	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/04/16 05:43	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/04/16 05:43	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/04/16 05:43	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/04/16 05:43	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/04/16 05:43	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/04/16 05:43	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/04/16 05:43	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/04/16 05:43	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/04/16 05:43	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/04/16 05:43	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/04/16 05:43	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/04/16 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/04/16 05:43	1
Dibromofluoromethane	104		75 - 120		03/04/16 05:43	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/04/16 05:43	1
Toluene-d8 (Surr)	116		75 - 122		03/04/16 05:43	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	☼	03/05/16 16:34	03/06/16 23:41	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R10-1(0-1)-030216**

**Lab Sample ID: 500-108244-17**

**Date Collected: 03/02/16 11:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Chlorophenol	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Acenaphthylene</b>	<b>7.5 J</b>		35	4.6	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Benzo[a]anthracene</b>	<b>32 J</b>		35	4.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Benzo[a]pyrene</b>	<b>45</b>		35	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Benzo[b]fluoranthene</b>	<b>66</b>		35	7.5	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Benzo[g,h,i]perylene</b>	<b>20 J</b>		35	11	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Benzo[k]fluoranthene</b>	<b>24 J</b>		35	10	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>88 J</b>		180	64	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Butyl benzyl phthalate	<180		180	66	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Carbazole	<180		180	87	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Chrysene</b>	<b>38</b>		35	9.5	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Dibenz(a,h)anthracene	<35		35	6.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Fluoranthene</b>	<b>46</b>		35	6.5	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R10-1(0-1)-030216**

**Lab Sample ID: 500-108244-17**

**Date Collected: 03/02/16 11:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>24</b>	<b>J</b>	35	9.0	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Isophorone	<180		180	39	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Phenanthrene</b>	<b>22</b>	<b>J</b>	35	4.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
Phenol	<180		180	77	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	1
<b>Pyrene</b>	<b>43</b>		35	6.9	ug/Kg	☼	03/05/16 16:34	03/06/16 23:41	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	63		35 - 137				03/05/16 16:34	03/06/16 23:41	1
2-Fluorobiphenyl	72		25 - 119				03/05/16 16:34	03/06/16 23:41	1
2-Fluorophenol	79		25 - 110				03/05/16 16:34	03/06/16 23:41	1
Nitrobenzene-d5	64		25 - 115				03/05/16 16:34	03/06/16 23:41	1
Phenol-d5	79		31 - 110				03/05/16 16:34	03/06/16 23:41	1
Terphenyl-d14	82		36 - 134				03/05/16 16:34	03/06/16 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:41	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:41	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:41	1
<b>Zinc</b>	<b>0.44</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 17:09	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Iron</b>	<b>27</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Lead</b>	<b>0.076</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 17:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: R10-1(0-1)-030216**

**Lab Sample ID: 500-108244-17**

Date Collected: 03/02/16 11:35

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.3

**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		03/06/16 11:11	03/08/16 17:09	1
<b>Zinc</b>	<b>1.9</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 17:09	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Arsenic</b>	<b>2.2</b>		0.52	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Barium</b>	<b>11</b>		0.52	0.096	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Beryllium</b>	<b>0.20</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Cadmium</b>	<b>0.079</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Calcium</b>	<b>3500</b>		10	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Chromium</b>	<b>5.1</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Cobalt</b>	<b>1.4</b>		0.26	0.059	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Copper</b>	<b>2.5</b>		0.52	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Iron</b>	<b>4300</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Lead</b>	<b>14</b>		0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Magnesium</b>	<b>2200</b>		5.2	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Manganese</b>	<b>35</b>		0.52	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Nickel</b>	<b>4.3</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Potassium</b>	<b>180</b>	<b>B</b>	26	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Sodium</b>	<b>200</b>	<b>B</b>	52	6.9	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Vanadium</b>	<b>9.2</b>		0.26	0.076	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	1
<b>Zinc</b>	<b>23</b>		1.0	0.33	mg/Kg	☼	03/03/16 15:37	03/04/16 18:00	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		03/05/16 16:15	03/07/16 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/03/16 16:15	03/04/16 10:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.29</b>		0.200	0.200	SU			03/03/16 15:51	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #																	
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TECP/SPLP metals	pH						Comments		
<u>1</u>		<u>R2-1(0-1)-030216</u>	<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>R2-1(0-1)-030216D</u>		<u>0840</u>															
<u>3</u>		<u>RC-1(0-1)-030216</u>		<u>0855</u>															
<u>4</u>		<u>RC-2(0-1)-030216</u>		<u>0905</u>															
<u>5</u>		<u>RC-3(0-1)-030216</u>		<u>0920</u>															
<u>6</u>		<u>RC-4(0-1)-030216</u>		<u>0940</u>															
<u>7</u>		<u>RC-5(0-1)-030216</u>		<u>0950</u>															
<u>8</u>		<u>BDS-1(0-1)-030216</u>		<u>1000</u>															
<u>9</u>		<u>BDS-2(0-1)-030216</u>		<u>1010</u>															
<u>10</u>		<u>BDS-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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: \_\_\_\_\_

# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter										Preservative Key	
<u>Western</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments				
<u>IDOT-040</u>				Date	Time												
Project Location/State		Lab PM															
<u>Braidwood &amp; Cule Park / IL</u>		<u>D. Wright</u>															
Sampler																	
<u>T. Walls</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total metals	TCU/SP/ metals	PH	Comments					
<u>11</u>		<u>BDS-4(0-1)-030216</u>	<u>3-2-16</u>	<u>1035</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>12</u>		<u>BDS-4(0-1)-030216D</u>		<u>1035</u>													
<u>13</u>		<u>BDS-5(0-1)-030216</u>		<u>1050</u>													
<u>14</u>		<u>WL9-1(0-1)-030216</u>		<u>1100</u>													
<u>15</u>		<u>WL9-2(0-1)-030216</u>		<u>1115</u>													
<u>16</u>		<u>WL9-3(0-1)-030216</u>		<u>1125</u>													
<u>17</u>		<u>R10-1(0-1)-030216</u>		<u>1135</u>													
<u>18</u>		<u>F11-1(0-1)-030216</u>		<u>1235</u>													
<u>19</u>		<u>F11-2(0-1)-030216</u>		<u>1245</u>													
<u>20</u>		<u>F11-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1250</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
23855 W. IL 113 (ISGS Site No. 2948-11)

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

County: Will Township: Custer

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

Latitude: 41.260780456 Longitude: -88.186133874  
(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

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

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: FAU 327: Illinois Route 113

Latitude: 41.260780456 Longitude: -88.186133874

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 F11-1 THROUGH F11-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-11. SEE FIGURES 3-2/3-3 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: 500-108244-1.  
ALSO SEE FIGURES 4-2 AND 4-3 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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-11**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F11-1(0-1)-030216	F11-2(0-1)-030216	F11-3(0-1)-030216	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	
Location ID	F11-1	F11-2	F11-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-11	2948-11	2948-11	
<b>Parameter</b>				
Laboratory pH	7.17	7.21	7.4	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected			
<b>SVOCs (ug/kg)</b>				
Benzo(a)anthracene	11 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	11 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	19 J	ND	7.4 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	1.7 J	1.5 J	1.4 J	11.3 / 13
Barium, Total	13	12	11	1500
Beryllium, Total	0.17 J	0.18 J	0.13 J	22
Cadmium, Total	0.13	ND	ND	5.2
Calcium, Total	9900 J-	380 J-	2200 J-	---
Chromium, Total	5.1 B	5.3 B	5.4 B	21
Iron, Total	4300 J	4500 J	4300 J	15000 / 15900
Lead, Total	15 J	2.6 J	7.4 J	107
Manganese, Total	57 J	21 J	28 J	630 / 636
Mercury, Total	ND	0.014 J	0.016 J	0.89
Nickel, Total	3.9 B	4.4 B	3.8 B	100
Potassium, Total	220 B	130 B	130 B	---
Selenium, Total	ND	ND	0.26 J	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	32	11	12	5100
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.13 J	0.16 J	0.19 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	ND	0.61	0.37 J	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.52	0.034	0.22	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.21 J	0.14 J	0.32 J	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	ND	0.016 J	ND	0.05
Barium, SPLP	0.078 J	0.17 J	0.079 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.024 J	0.048	0.022 J	0.1
Iron, SPLP	19 J+	47 J+	23 J+	5
Lead, SPLP	0.055	0.02	0.029	0.0075
Manganese, SPLP	0.14	0.093	0.082	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.016 J	0.035	0.013 J	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-11**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108244-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2016 5:17:13 PM

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

### LINKS

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

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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-1(0-1)-030216**

**Lab Sample ID: 500-108244-18**

**Date Collected: 03/02/16 12:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/04/16 06:08	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/04/16 06:08	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 06:08	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 06:08	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/04/16 06:08	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 06:08	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 06:08	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/04/16 06:08	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/04/16 06:08	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/04/16 06:08	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 06:08	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 06:08	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 06:08	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/04/16 06:08	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/04/16 06:08	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 06:08	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/04/16 06:08	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/04/16 06:08	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/04/16 06:08	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 06:08	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/04/16 06:08	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/04/16 06:08	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/04/16 06:08	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/04/16 06:08	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/04/16 06:08	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/04/16 06:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/04/16 06:08	1
Dibromofluoromethane	100		75 - 120		03/04/16 06:08	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/04/16 06:08	1
Toluene-d8 (Surr)	121		75 - 122		03/04/16 06:08	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	☼	03/05/16 16:34	03/07/16 01:38	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-1(0-1)-030216**

**Lab Sample ID: 500-108244-18**

**Date Collected: 03/02/16 12:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<360		360	83	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>2-Methylnaphthalene</b>	<b>51</b>		36	6.7	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Benzo[a]anthracene</b>	<b>11 J</b>		36	4.9	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Benzo[a]pyrene</b>	<b>11 J</b>		36	7.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Benzo[b]fluoranthene</b>	<b>19 J</b>		36	7.8	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Carbazole	<180		180	90	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Chrysene</b>	<b>15 J</b>		36	9.9	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Fluoranthene</b>	<b>27 J</b>		36	6.7	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-1(0-1)-030216**

**Lab Sample ID: 500-108244-18**

Date Collected: 03/02/16 12:35

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.4	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Isophorone	<180		180	41	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Naphthalene</b>	<b>12</b>	<b>J</b>	36	5.6	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Phenanthrene</b>	<b>55</b>		36	5.0	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Phenol	<180		180	80	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
<b>Pyrene</b>	<b>23</b>	<b>J</b>	36	7.2	ug/Kg	☼	03/05/16 16:34	03/07/16 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/05/16 16:34	03/07/16 01:38	1
2-Fluorobiphenyl	73		25 - 119				03/05/16 16:34	03/07/16 01:38	1
2-Fluorophenol	78		25 - 110				03/05/16 16:34	03/07/16 01:38	1
Nitrobenzene-d5	65		25 - 115				03/05/16 16:34	03/07/16 01:38	1
Phenol-d5	78		31 - 110				03/05/16 16:34	03/07/16 01:38	1
Terphenyl-d14	85		36 - 134				03/05/16 16:34	03/07/16 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:46	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:46	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:46	1
<b>Zinc</b>	<b>0.21</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Barium</b>	<b>0.078</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 17:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 17:15	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Chromium</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Iron</b>	<b>19</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Lead</b>	<b>0.055</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 17:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-1(0-1)-030216**

**Lab Sample ID: 500-108244-18**

**Date Collected: 03/02/16 12:35**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.8**

**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		03/06/16 11:11	03/08/16 17:15	1
<b>Zinc</b>	<b>0.26</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 17:15	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	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Arsenic</b>	<b>1.7</b>		0.54	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Barium</b>	<b>13</b>		0.54	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.032	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Calcium</b>	<b>9900</b>		11	3.5	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Chromium</b>	<b>5.1</b>	<b>B</b>	0.54	0.094	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Cobalt</b>	<b>1.2</b>		0.27	0.062	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Copper</b>	<b>2.6</b>		0.54	0.12	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Iron</b>	<b>4300</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Lead</b>	<b>15</b>		0.27	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Magnesium</b>	<b>5900</b>		5.4	2.2	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Manganese</b>	<b>57</b>		0.54	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Nickel</b>	<b>3.9</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Potassium</b>	<b>220</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Sodium</b>	<b>190</b>	<b>B</b>	54	7.2	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Vanadium</b>	<b>8.9</b>		0.27	0.080	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	1
<b>Zinc</b>	<b>32</b>		1.1	0.34	mg/Kg	☼	03/03/16 15:37	03/04/16 18:04	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		03/05/16 16:15	03/09/16 12:50	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		03/05/16 16:15	03/07/16 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.2	ug/Kg	☼	03/03/16 16:15	03/04/16 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.17</b>		0.200	0.200	SU			03/03/16 16:06	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-2(0-1)-030216**

**Lab Sample ID: 500-108244-19**

**Date Collected: 03/02/16 12:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.2	ug/Kg	☼		03/04/16 06:33	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/04/16 06:33	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/04/16 06:33	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/04/16 06:33	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/04/16 06:33	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/04/16 06:33	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/04/16 06:33	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/04/16 06:33	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/04/16 06:33	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/04/16 06:33	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/04/16 06:33	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/04/16 06:33	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/04/16 06:33	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/04/16 06:33	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/04/16 06:33	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/04/16 06:33	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/04/16 06:33	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/04/16 06:33	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/04/16 06:33	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/04/16 06:33	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/04/16 06:33	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/04/16 06:33	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/04/16 06:33	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/04/16 06:33	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/04/16 06:33	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/04/16 06:33	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/04/16 06:33	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/04/16 06:33	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/04/16 06:33	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/04/16 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122		03/04/16 06:33	1
Dibromofluoromethane	96		75 - 120		03/04/16 06:33	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/04/16 06:33	1
Toluene-d8 (Surr)	96		75 - 122		03/04/16 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-2(0-1)-030216**

**Lab Sample ID: 500-108244-19**

Date Collected: 03/02/16 12:45

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Acenaphthylene	<34		34	4.5	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Anthracene	<34		34	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Benzo[a]anthracene	<34		34	4.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Benzo[a]pyrene	<34		34	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Benzo[b]fluoranthene	<34		34	7.4	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Benzo[g,h,i]perylene	<34		34	11	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Benzo[k]fluoranthene	<34		34	10	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>90</b>	<b>J</b>	170	63	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Carbazole	<170		170	86	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Chrysene	<34		34	9.4	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Dibenz(a,h)anthracene	<34		34	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Fluoranthene	<34		34	6.4	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Hexachlorobenzene	<69		69	8.0	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-2(0-1)-030216**

**Lab Sample ID: 500-108244-19**

**Date Collected: 03/02/16 12:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<34		34	8.9	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Isophorone	<170		170	39	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Phenanthrene	<34		34	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Phenol	<170		170	76	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Pyrene	<34		34	6.8	ug/Kg	☼	03/05/16 16:34	03/06/16 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137				03/05/16 16:34	03/06/16 20:17	1
2-Fluorobiphenyl	83		25 - 119				03/05/16 16:34	03/06/16 20:17	1
2-Fluorophenol	93		25 - 110				03/05/16 16:34	03/06/16 20:17	1
Nitrobenzene-d5	76		25 - 115				03/05/16 16:34	03/06/16 20:17	1
Phenol-d5	94		31 - 110				03/05/16 16:34	03/06/16 20:17	1
Terphenyl-d14	89		36 - 134				03/05/16 16:34	03/06/16 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
<b>Iron</b>	<b>0.61</b>		0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:52	1
<b>Manganese</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:52	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:52	1
<b>Zinc</b>	<b>0.14</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 17:22	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Chromium</b>	<b>0.048</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Iron</b>	<b>47</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Manganese</b>	<b>0.093</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
<b>Nickel</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 17:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-2(0-1)-030216**

**Lab Sample ID: 500-108244-19**

**Date Collected: 03/02/16 12:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.0**

**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		03/06/16 11:11	03/08/16 17:22	1
<b>Zinc</b>	<b>0.24</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 17:22	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Arsenic</b>	<b>1.5</b>		0.52	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Barium</b>	<b>12</b>		0.52	0.095	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Beryllium</b>	<b>0.18</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Calcium</b>	<b>380</b>		10	3.4	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Chromium</b>	<b>5.3</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Cobalt</b>	<b>1.6</b>		0.26	0.059	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Copper</b>	<b>1.7</b>		0.52	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Iron</b>	<b>4500</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Lead</b>	<b>2.6</b>		0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Magnesium</b>	<b>510</b>		5.2	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Manganese</b>	<b>21</b>		0.52	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Nickel</b>	<b>4.4</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Potassium</b>	<b>130</b>	<b>B</b>	26	4.3	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Sodium</b>	<b>58</b>	<b>B</b>	52	6.9	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Vanadium</b>	<b>9.0</b>		0.26	0.076	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	1
<b>Zinc</b>	<b>11</b>		1.0	0.33	mg/Kg	☼	03/03/16 15:37	03/04/16 18:08	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		03/05/16 16:15	03/07/16 22:17	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		03/05/16 16:15	03/07/16 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>14</b>	<b>J</b>	17	8.9	ug/Kg	☼	03/03/16 16:15	03/04/16 11:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.21</b>		0.200	0.200	SU			03/03/16 16:14	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-3(0-1)-030216**

**Lab Sample ID: 500-108244-20**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/04/16 06:58	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/04/16 06:58	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/04/16 06:58	1
Bromoform	<5.3	F1	5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/04/16 06:58	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/04/16 06:58	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
Chlorobenzene	<5.3	F1	5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/04/16 06:58	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/04/16 06:58	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
cis-1,3-Dichloropropene	<5.3	F1	5.3	1.2	ug/Kg	☼		03/04/16 06:58	1
Dibromochloromethane	<5.3	F1	5.3	0.61	ug/Kg	☼		03/04/16 06:58	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/04/16 06:58	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/04/16 06:58	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/04/16 06:58	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/04/16 06:58	1
Ethylbenzene	<5.3	F1	5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
2-Hexanone	<5.3	F1	5.3	1.7	ug/Kg	☼		03/04/16 06:58	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/04/16 06:58	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/04/16 06:58	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
Styrene	<5.3	F1	5.3	1.2	ug/Kg	☼		03/04/16 06:58	1
1,1,2,2-Tetrachloroethane	<5.3	F1	5.3	0.85	ug/Kg	☼		03/04/16 06:58	1
Tetrachloroethene	<5.3	F1	5.3	1.1	ug/Kg	☼		03/04/16 06:58	1
Toluene	<5.3	F1	5.3	1.9	ug/Kg	☼		03/04/16 06:58	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
trans-1,3-Dichloropropene	<5.3	F1	5.3	1.5	ug/Kg	☼		03/04/16 06:58	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/04/16 06:58	1
1,1,2-Trichloroethane	<5.3	F1	5.3	1.0	ug/Kg	☼		03/04/16 06:58	1
Trichloroethene	<5.3	F1	5.3	1.4	ug/Kg	☼		03/04/16 06:58	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/04/16 06:58	1
Xylenes, Total	<11	F1	11	2.0	ug/Kg	☼		03/04/16 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/04/16 06:58	1
Dibromofluoromethane	99		75 - 120		03/04/16 06:58	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/04/16 06:58	1
Toluene-d8 (Surr)	121		75 - 122		03/04/16 06:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-3(0-1)-030216**

**Lab Sample ID: 500-108244-20**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	77	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,4-Dinitrophenol	<680		680	600	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Methylnaphthalene	<34		34	6.2	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Methylphenol	<170		170	54	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Acenaphthylene	<34		34	4.5	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Anthracene	<34		34	5.7	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Benzo[a]anthracene	<34		34	4.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Benzo[a]pyrene	<34		34	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
<b>Benzo[b]fluoranthene</b>	<b>7.4 J</b>		34	7.3	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Benzo[g,h,i]perylene	<34		34	11	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Benzo[k]fluoranthene	<34		34	10	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Carbazole	<170		170	85	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
<b>Chrysene</b>	<b>11 J</b>		34	9.3	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Dibenz(a,h)anthracene	<34		34	6.6	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
<b>Fluoranthene</b>	<b>9.8 J</b>		34	6.3	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Hexachlorobenzene	<68		68	7.9	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Hexachlorocyclopentadiene	<680		680	200	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/05/16 16:34	03/06/16 20:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-3(0-1)-030216**

**Lab Sample ID: 500-108244-20**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<34		34	8.8	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Isophorone	<170		170	38	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Naphthalene	<34		34	5.2	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Nitrobenzene	<34		34	8.5	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Pentachlorophenol	<680		680	540	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
<b>Phenanthrene</b>	<b>28</b>	<b>J</b>	34	4.7	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Phenol	<170		170	75	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
<b>Pyrene</b>	<b>8.6</b>	<b>J</b>	34	6.7	ug/Kg	*	03/05/16 16:34	03/06/16 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		35 - 137				03/05/16 16:34	03/06/16 20:46	1
2-Fluorobiphenyl	88		25 - 119				03/05/16 16:34	03/06/16 20:46	1
2-Fluorophenol	95		25 - 110				03/05/16 16:34	03/06/16 20:46	1
Nitrobenzene-d5	81		25 - 115				03/05/16 16:34	03/06/16 20:46	1
Phenol-d5	95		31 - 110				03/05/16 16:34	03/06/16 20:46	1
Terphenyl-d14	88		36 - 134				03/05/16 16:34	03/06/16 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 12:10	03/07/16 12:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 12:10	03/07/16 12:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/16 12:10	03/07/16 12:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
<b>Iron</b>	<b>0.37</b>	<b>J</b>	0.40	0.20	mg/L		03/06/16 12:10	03/07/16 12:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 12:10	03/07/16 12:57	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 12:10	03/07/16 12:57	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 12:10	03/07/16 12:57	1
<b>Zinc</b>	<b>0.32</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 12:10	03/07/16 12:57	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		03/06/16 11:11	03/08/16 17:29	1
<b>Barium</b>	<b>0.079</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:11	03/08/16 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:11	03/08/16 17:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Chromium</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Iron</b>	<b>23</b>		0.40	0.20	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Lead</b>	<b>0.029</b>		0.0075	0.0075	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Manganese</b>	<b>0.082</b>		0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:29	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:11	03/08/16 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:11	03/08/16 17:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

**Client Sample ID: F11-3(0-1)-030216**

**Lab Sample ID: 500-108244-20**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 93.6**

**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		03/06/16 11:11	03/08/16 17:29	1
<b>Zinc</b>	<b>0.080</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:11	03/08/16 17:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1	1.0	0.21	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Arsenic</b>	<b>1.4</b>	<b>F2 F1</b>	0.51	0.24	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Barium</b>	<b>11</b>		0.51	0.093	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Beryllium</b>	<b>0.13</b>	<b>J</b>	0.20	0.044	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Calcium</b>	<b>2200</b>		10	3.3	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Chromium</b>	<b>5.4</b>	<b>B</b>	0.51	0.088	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Cobalt</b>	<b>1.3</b>		0.26	0.058	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Copper</b>	<b>2.4</b>		0.51	0.11	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Iron</b>	<b>4300</b>	<b>F2 B</b>	10	3.9	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Lead</b>	<b>7.4</b>	<b>F1 F2</b>	0.26	0.13	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Magnesium</b>	<b>1500</b>	<b>F1</b>	5.1	2.1	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Manganese</b>	<b>28</b>	<b>F2 F1</b>	0.51	0.10	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Nickel</b>	<b>3.8</b>	<b>B</b>	0.51	0.14	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Potassium</b>	<b>130</b>	<b>B</b>	26	4.2	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Selenium</b>	<b>0.26</b>	<b>J</b>	0.51	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Sodium</b>	<b>40</b>	<b>J B</b>	51	6.7	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Vanadium</b>	<b>9.5</b>		0.26	0.075	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	1
<b>Zinc</b>	<b>12</b>		1.0	0.32	mg/Kg	☼	03/03/16 15:37	03/04/16 18:12	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		03/05/16 16:15	03/07/16 22:19	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		03/05/16 16:15	03/07/16 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J</b>	17	9.1	ug/Kg	☼	03/03/16 16:15	03/04/16 11:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.40</b>		0.200	0.200	SU			03/03/16 16:22	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108244-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534.



500-108244 COC

Report To \_\_\_\_\_ (optional)  
Contact: S. Robinson-Murray  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total metals		TCLP/SPLP metals		PH						Comments	
<u>IDOT-040</u>																			
Project Location/State		Lab PM		Date		Time													
<u>Broadwood/Kenston Park / IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers		Matrix											
<u>1</u>		<u>R2-1(0-1)-030216</u>		<u>3-2-16</u>	<u>0840</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>2</u>		<u>R2-1(0-1)-030216D</u>			<u>0840</u>														
<u>3</u>		<u>RC-1(0-1)-030216</u>			<u>0855</u>														
<u>4</u>		<u>RC-2(0-1)-030216</u>			<u>0905</u>														
<u>5</u>		<u>RC-3(0-1)-030216</u>			<u>0920</u>														
<u>6</u>		<u>RC-4(0-1)-030216</u>			<u>0940</u>														
<u>7</u>		<u>RC-5(0-1)-030216</u>			<u>0950</u>														
<u>8</u>		<u>BDS-1(0-1)-030216</u>			<u>1000</u>														
<u>9</u>		<u>BDS-2(0-1)-030216</u>			<u>1010</u>														
<u>10</u>		<u>BDS-3(0-1)-030216</u>		<u>3-2-16</u>	<u>1020</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>3/3/16</u>	Time <u>0715</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: \_\_\_\_\_

# 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: Western Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108244  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Western</u>											
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>IDOT-040</u>											
Project Location/State		Lab PM		Date		Time		Matrix		Comments	
<u>Brackwood &amp; Cule Park / IL</u>		<u>D. Wright</u>									
Sampler		Sample ID		Date		Time		Matrix		Comments	
<u>T. Walls</u>											
<u>11</u>		<u>BDS-4(0-1)-030216</u>	<u>3-2-16</u>	<u>1035</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>BDS-4(0-1)-030216D</u>		<u>1035</u>							
<u>13</u>		<u>BDS-5(0-1)-030216</u>		<u>1050</u>							
<u>14</u>		<u>WL9-1(0-1)-030216</u>		<u>1100</u>							
<u>15</u>		<u>WL9-2(0-1)-030216</u>		<u>1115</u>							
<u>16</u>		<u>WL9-3(0-1)-030216</u>		<u>1125</u>							
<u>17</u>		<u>R10-1(0-1)-030216</u>		<u>1135</u>							
<u>18</u>		<u>F11-1(0-1)-030216</u>		<u>1235</u>							
<u>19</u>		<u>F11-2(0-1)-030216</u>		<u>1245</u>							
<u>20</u>		<u>F11-3(0-1)-030216</u>	<u>3-2-16</u>	<u>1250</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard  Other  
 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>T. Walls</u>	Company <u>Western</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1530</u>	Lab Courier <u>JA</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>Shirley Scott</u>	Company <u>JA-CAR</u>	Date <u>3/3/16</u>	Time <u>0715</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

23815 W. IL 113 (ISGS Site No. 2948-12)

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

County: Will Township: Custer

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

Latitude: 41.260807130 Longitude: -88.184657833  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260807130 Longitude: -88.184657833

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 F12-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-12. SEE FIGURE 3-3 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: 500-108245-1.  
ALSO SEE FIGURE 4-3 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.

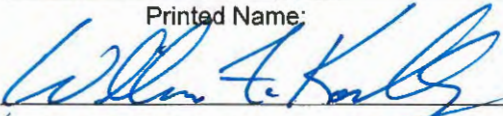
Street Address: 300 Circle Plaza; Suite 202

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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-12**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F12-1(0-1)-030216	F12-1(0-1)-030216D	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	
Location ID	F12-1	F12-1	
Depth	0 - 1	0 - 1	
Location Code	2948-12	2948-12	
<b>Parameter</b>			
Laboratory pH	6.95	6.7	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>		
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.7 J	1.3 J	11.3 / 13
Barium, Total	5.3	5.1	1500
Beryllium, Total	0.1 J	0.12 J	22
Cadmium, Total	0.04 J	0.034 J	5.2
Calcium, Total	530 J	520 J	---
Chromium, Total	7.1 B	6.9 B	21
Iron, Total	5600 J	5300 J	15000 / 15900
Lead, Total	2.9 J	2.7 J	107
Manganese, Total	74 J	66 J	630 / 636
Mercury, Total	ND	ND	0.89
Nickel, Total	3.7 B	3.6 B	100
Potassium, Total	130	130	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	10	9.7	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.059 J	0.067 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	0.2 J	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.04	0.045	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	ND	ND	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.014 J	0.014 J	0.1
Iron, SPLP	19 J-	18 J-	5
Lead, SPLP	ND	ND	0.0075
Manganese, SPLP	0.4	0.4	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	ND	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	ND	ND	5

**Summary Table of ISGS Site No. 2948-12**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 AM

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

### LINKS

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

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

- 1
- 2
- 3
- 4
- 5
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- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216**

**Lab Sample ID: 500-108245-1**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23	F2	23	4.5	ug/Kg	☼		03/03/16 13:12	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:12	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 13:12	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:12	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:12	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
Chloroethane	<5.8	F2	5.8	2.4	ug/Kg	☼		03/03/16 13:12	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 13:12	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:12	1
Dibromochloromethane	<5.8	F1	5.8	0.66	ug/Kg	☼		03/03/16 13:12	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 13:12	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:12	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 13:12	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 13:12	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
2-Hexanone	<5.8	F2	5.8	1.8	ug/Kg	☼		03/03/16 13:12	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 13:12	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:12	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
Methyl tert-butyl ether	<5.8	F1	5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
Styrene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
1,1,2,2-Tetrachloroethane	<5.8	F1	5.8	0.92	ug/Kg	☼		03/03/16 13:12	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:12	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 13:12	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
trans-1,3-Dichloropropene	<5.8	F1	5.8	1.6	ug/Kg	☼		03/03/16 13:12	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:12	1
1,1,2-Trichloroethane	<5.8	F1	5.8	1.1	ug/Kg	☼		03/03/16 13:12	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 13:12	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:12	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/03/16 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 13:12	1
Dibromofluoromethane	101		75 - 120		03/03/16 13:12	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/03/16 13:12	1
Toluene-d8 (Surr)	105		75 - 122		03/03/16 13:12	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	☼	03/06/16 10:59	03/07/16 14:29	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216**

**Lab Sample ID: 500-108245-1**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	86	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,4-Dimethylphenol	<380	F1 F2	380	140	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,4-Dinitrophenol	<760	F1	760	670	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
4-Nitrophenol	<760	F2	760	360	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Benzo[a]pyrene	<38	*	38	7.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Benzo[b]fluoranthene	<38	*	38	8.2	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Benzo[g,h,i]perylene	<38	* F1	38	12	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Benzo[k]fluoranthene	<38	*	38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Bis(2-ethylhexyl) phthalate	<190	F1	190	69	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Butyl benzyl phthalate	<190	F1	190	72	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Carbazole	<190		190	95	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Chrysene	<38		38	10	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Di-n-octyl phthalate	<190	F1	190	62	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Hexachlorocyclopentadiene	<760	F1	760	220	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Hexachloroethane	<190	F1	190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216**

**Lab Sample ID: 500-108245-1**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Isophorone	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Pentachlorophenol	<760	F1	760	610	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Phenol	<190		190	84	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1
Pyrene	<38	F1	38	7.5	ug/Kg	☼	03/06/16 10:59	03/07/16 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		35 - 137	03/06/16 10:59	03/07/16 14:29	1
2-Fluorobiphenyl	76		25 - 119	03/06/16 10:59	03/07/16 14:29	1
2-Fluorophenol	99		25 - 110	03/06/16 10:59	03/07/16 14:29	1
Nitrobenzene-d5	70		25 - 115	03/06/16 10:59	03/07/16 14:29	1
Phenol-d5	93		31 - 110	03/06/16 10:59	03/07/16 14:29	1
Terphenyl-d14	132		36 - 134	03/06/16 10:59	03/07/16 14:29	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		03/07/16 08:53	03/08/16 00:46	1
<b>Barium</b>	<b>0.059</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 00:46	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 00:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 00:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 00:46	1
<b>Manganese</b>	<b>0.040</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 00:46	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:46	1
<b>Zinc</b>	<b>0.033</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:14	03/08/16 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 17:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 17:49	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
<b>Iron</b>	<b>19</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 17:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 17:49	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 17:49	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216**

**Lab Sample ID: 500-108245-1**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**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		03/06/16 11:14	03/08/16 17:49	1
<b>Zinc</b>	<b>0.69</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 17:49	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	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Arsenic</b>	<b>1.7</b>		0.55	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Barium</b>	<b>5.3</b>		0.55	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Beryllium</b>	<b>0.10</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Cadmium</b>	<b>0.040</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Calcium</b>	<b>530</b>		11	3.6	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Chromium</b>	<b>7.1</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Cobalt</b>	<b>2.0</b>		0.28	0.062	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Copper</b>	<b>2.3</b>		0.55	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Iron</b>	<b>5600</b>		11	4.2	mg/Kg	☼	03/07/16 09:19	03/07/16 18:18	1
<b>Lead</b>	<b>2.9</b>		0.28	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Magnesium</b>	<b>460</b>		5.5	2.2	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Manganese</b>	<b>74</b>		0.55	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Nickel</b>	<b>3.7</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Potassium</b>	<b>130</b>		28	4.5	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Sodium</b>	<b>310</b>		55	7.3	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Vanadium</b>	<b>14</b>		0.28	0.081	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1
<b>Zinc</b>	<b>10</b>		1.1	0.35	mg/Kg	☼	03/04/16 08:56	03/04/16 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J B</b>	19	9.8	ug/Kg	☼	03/03/16 16:15	03/04/16 12:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.95</b>		0.200	0.200	SU			03/03/16 23:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216D**

**Lab Sample ID: 500-108245-2**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 14:27	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 14:27	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/03/16 14:27	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 14:27	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 14:27	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 14:27	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 14:27	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 14:27	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/03/16 14:27	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/03/16 14:27	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 14:27	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 14:27	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 14:27	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 14:27	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 14:27	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 14:27	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 14:27	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/03/16 14:27	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 14:27	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 14:27	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 14:27	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 14:27	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 14:27	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 14:27	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 14:27	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/03/16 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 14:27	1
Dibromofluoromethane	101		75 - 120		03/03/16 14:27	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/03/16 14:27	1
Toluene-d8 (Surr)	103		75 - 122		03/03/16 14:27	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	☼	03/06/16 10:59	03/07/16 14:58	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216D**

**Lab Sample ID: 500-108245-2**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.8**

**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	82	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Benzo[a]pyrene	<36 *		36	7.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Benzo[b]fluoranthene	<36 *		36	7.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Carbazole	<180		180	90	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Chrysene	<36		36	9.8	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216D**

**Lab Sample ID: 500-108245-2**

**Date Collected: 03/02/16 13:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.3	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Isophorone	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Phenol	<180		180	80	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Pyrene	<36		36	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137				03/06/16 10:59	03/07/16 14:58	1
2-Fluorobiphenyl	59		25 - 119				03/06/16 10:59	03/07/16 14:58	1
2-Fluorophenol	81		25 - 110				03/06/16 10:59	03/07/16 14:58	1
Nitrobenzene-d5	54		25 - 115				03/06/16 10:59	03/07/16 14:58	1
Phenol-d5	73		31 - 110				03/06/16 10:59	03/07/16 14:58	1
Terphenyl-d14	104		36 - 134				03/06/16 10:59	03/07/16 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
<b>Barium</b>	<b>0.067</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 00:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 00:53	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 00:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
<b>Iron</b>	<b>0.20</b>	<b>J</b>	0.40	0.20	mg/L		03/07/16 08:53	03/08/16 00:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 00:53	1
<b>Manganese</b>	<b>0.045</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 00:53	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 00:53	1
Zinc	<0.50		0.50	0.020	mg/L		03/07/16 08:53	03/08/16 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:14	03/08/16 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 17:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 17:56	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
<b>Iron</b>	<b>18</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 17:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 17:56	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 17:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F12-1(0-1)-030216D**

**Lab Sample ID: 500-108245-2**

Date Collected: 03/02/16 13:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.8

**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		03/06/16 11:14	03/08/16 17:56	1
<b>Zinc</b>	<b>0.050</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 17:56	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	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Arsenic</b>	<b>1.3</b>		0.56	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Barium</b>	<b>5.1</b>		0.56	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Beryllium</b>	<b>0.12</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Cadmium</b>	<b>0.034</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Calcium</b>	<b>520</b>		11	3.6	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Chromium</b>	<b>6.9</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Cobalt</b>	<b>1.8</b>		0.28	0.063	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Copper</b>	<b>2.1</b>		0.56	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Iron</b>	<b>5300</b>		9.1	3.5	mg/Kg	☼	03/07/16 09:19	03/07/16 18:39	1
<b>Lead</b>	<b>2.7</b>		0.28	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Magnesium</b>	<b>460</b>		5.6	2.3	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Manganese</b>	<b>66</b>		0.56	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Nickel</b>	<b>3.6</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Potassium</b>	<b>130</b>		28	4.5	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Sodium</b>	<b>330</b>		56	7.3	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Vanadium</b>	<b>13</b>		0.28	0.081	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	1
<b>Zinc</b>	<b>9.7</b>		1.1	0.35	mg/Kg	☼	03/04/16 08:56	03/04/16 20:47	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		03/07/16 15:00	03/08/16 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J B</b>	18	9.3	ug/Kg	☼	03/03/16 16:15	03/04/16 12:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.70</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108245 COC

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments							
1		F12-1(0-1)-030216	3-2-16	1305	2	S	X	X	X	X	T								
2		<del>F12-1(0-1)-030216D</del>		<del>1320</del>								F12-1(0-1)							
3		R14-1(0-1)-030216		1320															
4		WL15-1(0-1)-030216		1330															
5		R14-2(0-1)-030216		1340															
6		R17-1(0-1)-030216		1350															
7		F18-1(0-1)-030216		1400															
8		R20-1(0-1)-030216		1410															
9		<del>R22-1(0-1)-030216</del>		1425								AL19-1(0-1)							
10		R22-1(0-1)-030216	3-2-16	1445	2	S	X	X	X	X	T								

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

23700 block of W. IL 113 (ISGS Site No. 2948-13)

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

County: Will Township: Custer

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

Latitude: 41.260946112 Longitude: -88.183238754

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260946112 Longitude: -88.183238754

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 WL13-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-13. SEE FIGURE 3-3 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: 500-108392-1.  
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

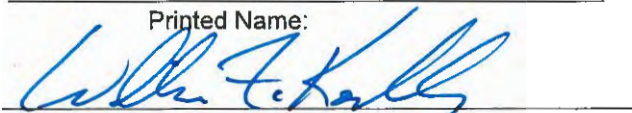
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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:



5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2948-13**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	WL13-1(0-1)-030416	<b>Soil Reference Concentrations</b>
Sample Date	3/4/2016	
Location ID	WL13-1	
Depth	0 - 1	
Location Code	2948-13	
Parameter		
Laboratory pH	8.66	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	5.2	11.3 / 13
Barium, Total	33 J	1500
Beryllium, Total	0.27	22
Cadmium, Total	ND	5.2
Calcium, Total	6700 J	---
Chromium, Total	7.8 B	21
Iron, Total	9300 J-	15000 / 15900
Lead, Total	6.3	107
Manganese, Total	110 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.7	100
Potassium, Total	290	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	21	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.23 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.42	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.014 J	0.05
Barium, SPLP	0.33 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.04	0.1
Iron, SPLP	35 J-	5
Lead, SPLP	0.02	0.0075
Manganese, SPLP	0.28	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.02 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-13**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108392-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 8:18:15 AM

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

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

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

- 1
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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: WL13-1(0-1)-030416**

**Lab Sample ID: 500-108392-5**

**Date Collected: 03/04/16 13:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/07/16 13:17	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 13:17	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/07/16 13:17	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 13:17	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 13:17	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/07/16 13:17	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 13:17	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 13:17	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/07/16 13:17	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/07/16 13:17	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 13:17	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 13:17	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 13:17	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/07/16 13:17	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/07/16 13:17	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 13:17	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/07/16 13:17	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 13:17	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/07/16 13:17	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 13:17	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 13:17	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 13:17	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 13:17	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 13:17	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 13:17	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/07/16 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/07/16 13:17	1
Dibromofluoromethane	105		75 - 120		03/07/16 13:17	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/07/16 13:17	1
Toluene-d8 (Surr)	104		75 - 122		03/07/16 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/08/16 23:40	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:59	03/08/16 23:40	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/08/16 23:40	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/08/16 23:40	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/08/16 23:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: WL13-1(0-1)-030416**

**Lab Sample ID: 500-108392-5**

**Date Collected: 03/04/16 13:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	*	03/07/16 16:59	03/08/16 23:40	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Chloronaphthalene	<190		190	42	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Chlorophenol	<190		190	65	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Methylphenol	<190		190	62	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Nitroaniline	<190		190	52	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
2-Nitrophenol	<380		380	91	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
3-Nitroaniline	<380		380	120	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Chloroaniline	<770		770	180	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Nitroaniline	<380		380	160	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
4-Nitrophenol	<770		770	360	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Acenaphthene	<38		38	6.9	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Acenaphthylene	<38		38	5.1	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Anthracene	<38		38	6.4	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Carbazole	<190		190	96	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Chrysene	<38		38	10	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Dibenzofuran	<190		190	45	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Diethyl phthalate	<190		190	65	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Dimethyl phthalate	<190		190	50	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Fluoranthene	<38		38	7.1	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Fluorene	<38		38	5.4	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Hexachlorobutadiene	<190		190	60	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Hexachloroethane	<190		190	58	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: WL13-1(0-1)-030416**

**Lab Sample ID: 500-108392-5**

**Date Collected: 03/04/16 13:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Isophorone	<190		190	43	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Naphthalene	<38		38	5.9	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Nitrobenzene	<38		38	9.6	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Pentachlorophenol	<770		770	620	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
<b>Phenanthrene</b>	<b>9.2</b>	<b>J</b>	38	5.3	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Phenol	<190		190	85	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	1
Pyrene	<38		38	7.6	ug/Kg	*	03/07/16 16:59	03/08/16 23:40	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				03/07/16 16:59	03/08/16 23:40	1
2-Fluorobiphenyl	69		25 - 119				03/07/16 16:59	03/08/16 23:40	1
2-Fluorophenol	79		25 - 110				03/07/16 16:59	03/08/16 23:40	1
Nitrobenzene-d5	65		25 - 115				03/07/16 16:59	03/08/16 23:40	1
Phenol-d5	73		31 - 110				03/07/16 16:59	03/08/16 23:40	1
Terphenyl-d14	85		36 - 134				03/07/16 16:59	03/08/16 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:31	1
<b>Manganese</b>	<b>0.42</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:31	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:31	1
<b>Zinc</b>	<b>0.046</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 07:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 07:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Chromium</b>	<b>0.040</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Iron</b>	<b>35</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 07:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 07:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: WL13-1(0-1)-030416**

**Lab Sample ID: 500-108392-5**

Date Collected: 03/04/16 13:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 86.2

**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		03/10/16 08:54	03/11/16 07:02	1
Zinc	0.28	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 07:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Arsenic	5.2		0.52	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Barium	33		0.52	0.096	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Beryllium	0.27		0.21	0.045	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Cadmium	0.037	J B	0.10	0.030	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Calcium	6700	B	10	3.4	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Chromium	7.8	B	0.52	0.090	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Cobalt	2.0		0.26	0.059	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Copper	4.8		0.52	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Iron	9300		10	4.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Lead	6.3		0.26	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Magnesium	3700	B	5.2	2.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Manganese	110	B	0.52	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Nickel	4.7		0.52	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Potassium	290		26	4.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Sodium	790		52	6.9	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Vanadium	17		0.26	0.076	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	1
Zinc	21		1.0	0.33	mg/Kg	☼	03/06/16 09:51	03/07/16 23:29	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		03/09/16 17:30	03/11/16 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.5	ug/Kg	☼	03/07/16 19:00	03/11/16 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU			03/08/16 16:22	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## 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
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. Babushkumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bondwood #Custer Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
1		AL19-3(0-1)-030416	3-4-16	1320	2 S		X	X	X	X	X								
2		AL19-3(0-1)-030416(D)		1320															
3		ALF-1(0-1)-030416		1340															
4		R14-3(0-1)-030416		1345															
5		WL13-1(0-1)-030416		1355															
6		BR7-1(0-1)-030416		1410															
7		BR7-2(0-1)-030416		1415															
8		BR7-3(0-1)-030416		1425															
9		BR7-4(0-1)-030416		1445															
10		BR-7-5(0-1)-030416	3-4-16	1505	2 S		X	X	X	X	X								



Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Shil Sanyal</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>#85</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time <u>16:50</u>	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: 08/16/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: S. Babusukumar  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 580-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter										Preservative Key	
<u>Weston</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments	
<u>IDOT-040</u>				Date Time		Matrix											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix											
<u>11</u>		<u>BR7-6(0-1)-030416</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<u>12</u>		<u>BR7-6(0-1)-030416D</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<del><u>7-6-2016 3-4-16</u></del>																	

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TALHE</u>	Date <u>03/04/16</u>	Time <u>10:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

23645-23747 W. IL 113 (ISGS Site No. 2948-14)

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

County: Will Township: Custer

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

Latitude: 41.260871243 Longitude: -88.180941876

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260871243 Longitude: -88.180941876

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 R14-1 THROUGH R14-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-14. SEE FIGURE 3-3 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 REPORTS - JOB ID: 500-108245-1 AND 500-108392-1. ALSO SEE FIGURE 4-3 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:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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



**Summary Table of ISGS Site No. 2948-14**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R14-1(0-1)-030216	R14-2(0-1)-030216	R14-3(0-1)-030416	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/4/2016	
Location ID	R14-1	R14-2	R14-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-14	2948-14	2948-14	
<b>Parameter</b>				
Laboratory pH	8.82	7.56	8.22	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>			
<b>SVOCs (ug/kg)</b>				
Benzo(a)anthracene	130	96	ND	900 / 1100 / 1800
Benzo(a)pyrene	160 J	140 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	310 J	270 J	ND	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	80 J	61 J	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	8.9 J	4.6 J	8.1	11.3 / 13
Barium, Total	30	30	23 J	1500
Beryllium, Total	0.33	0.26	0.27	22
Cadmium, Total	0.23 J	0.13 J	ND	5.2
Calcium, Total	16000 J	3700 J	6400 J	---
Chromium, Total	8 B	8.2 B	10 B	21
Iron, Total	12000 J	11000 J	15000 J-	15000 / 15900
Lead, Total	23 J	14 J	6.9	107
Manganese, Total	330 J	130 J	110 J	630 / 636
Mercury, Total	ND	ND	0.042	0.89
Nickel, Total	8.2 B	6.1 B	10	100
Potassium, Total	330	260	350	---
Selenium, Total	0.43 J	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	54	50	25	5100
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.27 J	0.26 J	0.28 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.5	0.32	0.41	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.048 J	0.025 J	0.015 J	0.05
Barium, SPLP	0.23 J	0.22 J	0.3 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.083	0.049	0.051	0.1
Iron, SPLP	100 J-	48 J-	47 J-	5
Lead, SPLP	0.11	0.069	0.021	0.0075
Manganese, SPLP	0.94	0.4	0.2	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.059	0.034	0.035	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	ND	1.8 B	ND	5

**Summary Table of ISGS Site No. 2948-14**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-1(0-1)-030216**

**Lab Sample ID: 500-108245-3**

**Date Collected: 03/02/16 13:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 14:53	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 14:53	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/03/16 14:53	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 14:53	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 14:53	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 14:53	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/03/16 14:53	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/03/16 14:53	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/03/16 14:53	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 14:53	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 14:53	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 14:53	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 14:53	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/03/16 14:53	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/03/16 14:53	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 14:53	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/03/16 14:53	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 14:53	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 14:53	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 14:53	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
1,1,2-Trichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 14:53	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 14:53	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 14:53	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122		03/03/16 14:53	1
Dibromofluoromethane	98		75 - 120		03/03/16 14:53	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/03/16 14:53	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 14:53	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	☼	03/06/16 10:59	03/08/16 20:42	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-1(0-1)-030216**

**Lab Sample ID: 500-108245-3**

**Date Collected: 03/02/16 13:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<380		380	88	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>2-Methylnaphthalene</b>	<b>30</b>	<b>J</b>	38	7.1	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Acenaphthene</b>	<b>13</b>	<b>J</b>	38	6.9	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Acenaphthylene</b>	<b>41</b>		38	5.1	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Anthracene</b>	<b>36</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Benzo[a]anthracene</b>	<b>130</b>		38	5.2	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Benzo[a]pyrene</b>	<b>160</b>	*	38	7.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Benzo[b]fluoranthene</b>	<b>310</b>	*	38	8.3	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Benzo[g,h,i]perylene</b>	<b>64</b>	*	38	12	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Benzo[k]fluoranthene</b>	<b>120</b>	*	38	11	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Carbazole	<190		190	96	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Chrysene</b>	<b>150</b>		38	10	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Dibenz(a,h)anthracene</b>	<b>21</b>	<b>J *</b>	38	7.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Fluoranthene</b>	<b>270</b>		38	7.1	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Fluorene</b>	<b>17</b>	<b>J</b>	38	5.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-1(0-1)-030216**

**Lab Sample ID: 500-108245-3**

**Date Collected: 03/02/16 13:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>80</b>	*	38	9.9	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Isophorone	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Naphthalene</b>	<b>8.0</b>	J	38	5.9	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Phenanthrene</b>	<b>260</b>		38	5.3	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
Phenol	<190		190	85	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	1
<b>Pyrene</b>	<b>400</b>		38	7.6	ug/Kg	☼	03/06/16 10:59	03/08/16 20:42	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				03/06/16 10:59	03/08/16 20:42	1
2-Fluorobiphenyl	71		25 - 119				03/06/16 10:59	03/08/16 20:42	1
2-Fluorophenol	76		25 - 110				03/06/16 10:59	03/08/16 20:42	1
Nitrobenzene-d5	61		25 - 115				03/06/16 10:59	03/08/16 20:42	1
Phenol-d5	45		31 - 110				03/06/16 10:59	03/08/16 20:42	1
Terphenyl-d14	146	X	36 - 134				03/06/16 10:59	03/08/16 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
<b>Barium</b>	<b>0.27</b>	J	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:00	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:00	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:00	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:00	1
<b>Zinc</b>	<b>0.17</b>	J B	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	J	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Barium</b>	<b>0.23</b>	J	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 18:03	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Chromium</b>	<b>0.083</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Cobalt</b>	<b>0.021</b>	J	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Copper</b>	<b>0.053</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Iron</b>	<b>100</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Manganese</b>	<b>0.94</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
<b>Nickel</b>	<b>0.059</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 18:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-1(0-1)-030216**

**Lab Sample ID: 500-108245-3**

**Date Collected: 03/02/16 13:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.0**

**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		03/06/16 11:14	03/08/16 18:03	1
<b>Zinc</b>	<b>0.66</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 18:03	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	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Arsenic</b>	<b>8.9</b>		0.57	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Barium</b>	<b>30</b>		0.57	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Beryllium</b>	<b>0.33</b>		0.23	0.050	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.033	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Calcium</b>	<b>16000</b>		11	3.7	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Chromium</b>	<b>8.0</b>	<b>B</b>	0.57	0.099	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Cobalt</b>	<b>5.2</b>		0.29	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Copper</b>	<b>7.1</b>		0.57	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Iron</b>	<b>12000</b>		10	4.0	mg/Kg	☼	03/07/16 09:19	03/07/16 18:43	1
<b>Lead</b>	<b>23</b>		0.29	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Magnesium</b>	<b>8900</b>		5.7	2.3	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Manganese</b>	<b>330</b>		0.57	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Nickel</b>	<b>8.2</b>	<b>B</b>	0.57	0.16	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Potassium</b>	<b>330</b>		29	4.7	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Sodium</b>	<b>650</b>		57	7.6	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Vanadium</b>	<b>16</b>		0.29	0.084	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1
<b>Zinc</b>	<b>54</b>		1.1	0.36	mg/Kg	☼	03/04/16 08:56	03/04/16 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:12	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		03/05/16 16:15	03/07/16 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>39</b>	<b>B</b>	19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 12:36	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			03/03/16 23:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-2(0-1)-030216**

**Lab Sample ID: 500-108245-5**

**Date Collected: 03/02/16 13:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 15:43	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 15:43	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/03/16 15:43	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 15:43	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 15:43	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 15:43	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/03/16 15:43	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 15:43	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/03/16 15:43	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/03/16 15:43	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 15:43	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 15:43	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 15:43	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 15:43	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/03/16 15:43	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/03/16 15:43	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 15:43	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/03/16 15:43	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 15:43	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 15:43	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 15:43	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 15:43	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/03/16 15:43	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 15:43	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 15:43	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/03/16 15:43	1
Dibromofluoromethane	101		75 - 120		03/03/16 15:43	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/03/16 15:43	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 15:43	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	☼	03/06/16 10:59	03/07/16 15:56	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-2(0-1)-030216**

**Lab Sample ID: 500-108245-5**

**Date Collected: 03/02/16 13:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.5**

**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	☼	03/06/16 10:59	03/07/16 15:56	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>2-Methylnaphthalene</b>	<b>10</b>	<b>J</b>	38	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Acenaphthylene</b>	<b>8.6</b>	<b>J</b>	38	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Anthracene</b>	<b>6.5</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Benzo[a]anthracene</b>	<b>96</b>		38	5.2	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Benzo[a]pyrene</b>	<b>140</b>	*	38	7.5	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Benzo[b]fluoranthene</b>	<b>270</b>	*	38	8.3	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Benzo[g,h,i]perylene</b>	<b>50</b>	*	38	12	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Benzo[k]fluoranthene</b>	<b>100</b>	*	38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Carbazole	<190		190	96	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Chrysene</b>	<b>100</b>		38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Dibenz(a,h)anthracene</b>	<b>13</b>	<b>J *</b>	38	7.4	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Fluoranthene</b>	<b>120</b>		38	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-2(0-1)-030216**

**Lab Sample ID: 500-108245-5**

**Date Collected: 03/02/16 13:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.5**

**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>61</b>	*	38	10	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Isophorone	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Naphthalene</b>	<b>16</b>	J	38	5.9	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Phenanthrene</b>	<b>38</b>		38	5.4	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
Phenol	<190		190	86	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Pyrene</b>	<b>190</b>		38	7.7	ug/Kg	☼	03/06/16 10:59	03/07/16 15:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	88		35 - 137				03/06/16 10:59	03/07/16 15:56	1
<i>2-Fluorobiphenyl</i>	72		25 - 119				03/06/16 10:59	03/07/16 15:56	1
<i>2-Fluorophenol</i>	80		25 - 110				03/06/16 10:59	03/07/16 15:56	1
<i>Nitrobenzene-d5</i>	60		25 - 115				03/06/16 10:59	03/07/16 15:56	1
<i>Phenol-d5</i>	75		31 - 110				03/06/16 10:59	03/07/16 15:56	1
<i>Terphenyl-d14</i>	118		36 - 134				03/06/16 10:59	03/07/16 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
<b>Barium</b>	<b>0.26</b>	J	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
<b>Copper</b>	<b>0.011</b>	J	0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:13	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:13	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:13	1
<b>Zinc</b>	<b>0.21</b>	J B	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.025</b>	J	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Barium</b>	<b>0.22</b>	J	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 18:52	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Chromium</b>	<b>0.049</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Cobalt</b>	<b>0.012</b>	J	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Iron</b>	<b>48</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Lead</b>	<b>0.069</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R14-2(0-1)-030216**

**Lab Sample ID: 500-108245-5**

**Date Collected: 03/02/16 13:40**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.5**

**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		03/06/16 11:14	03/08/16 18:52	1
<b>Zinc</b>	<b>1.8</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 18:52	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	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Arsenic</b>	<b>4.6</b>		0.57	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Barium</b>	<b>30</b>		0.57	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Beryllium</b>	<b>0.26</b>		0.23	0.050	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.033	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Calcium</b>	<b>3700</b>		11	3.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Chromium</b>	<b>8.2</b>	<b>B</b>	0.57	0.099	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Cobalt</b>	<b>2.8</b>		0.29	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Copper</b>	<b>6.0</b>		0.57	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Iron</b>	<b>11000</b>		11	4.2	mg/Kg	☼	03/07/16 09:19	03/07/16 19:00	1
<b>Lead</b>	<b>14</b>		0.29	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Magnesium</b>	<b>2100</b>		5.7	2.3	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Manganese</b>	<b>130</b>		0.57	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Nickel</b>	<b>6.1</b>	<b>B</b>	0.57	0.16	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Potassium</b>	<b>260</b>		29	4.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Sodium</b>	<b>260</b>		57	7.6	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Vanadium</b>	<b>14</b>		0.29	0.084	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1
<b>Zinc</b>	<b>50</b>		1.1	0.36	mg/Kg	☼	03/04/16 08:56	03/04/16 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:16	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		03/05/16 16:15	03/07/16 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>30</b>	<b>B</b>	19	9.8	ug/Kg	☼	03/03/16 16:15	03/04/16 12:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.56</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108245 COC

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments							
1		F12-1(0-1)-030216	3-2-16	1305	2	S	X	X	X	X	↑								
2		<del>F12-1(0-1)-030216</del> F14-1(0-1)-030216D		<del>1305</del> 1320								F12-1(0-1)							
3		R14-1(0-1)-030216		1320															
4		WL15-1(0-1)-030216		1330															
5		R14-2(0-1)-030216		1340															
6		R17-1(0-1)-030216		1350															
7		F18-1(0-1)-030216		1400															
8		R20-1(0-1)-030216		1410															
9		<del>R22-1(0-1)-030216</del> AL19-1		1425								AL19-1(0-1)							
10		R22-1(0-1)-030216	3-2-16	1445	2	S	X	X	X	X	↑								

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108392-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 8:18:15 AM

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

### LINKS

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

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

- 1
- 2
- 3
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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: R14-3(0-1)-030416**

**Lab Sample ID: 500-108392-4**

**Date Collected: 03/04/16 13:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/07/16 12:52	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 12:52	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/07/16 12:52	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:52	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:52	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 12:52	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/07/16 12:52	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/07/16 12:52	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/07/16 12:52	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:52	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 12:52	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 12:52	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 12:52	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/07/16 12:52	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/07/16 12:52	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 12:52	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/07/16 12:52	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 12:52	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 12:52	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 12:52	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:52	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 12:52	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:52	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/07/16 12:52	1
Dibromofluoromethane	104		75 - 120		03/07/16 12:52	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 12:52	1
Toluene-d8 (Surr)	104		75 - 122		03/07/16 12:52	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	☼	03/07/16 16:59	03/08/16 23:15	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: R14-3(0-1)-030416**

**Lab Sample ID: 500-108392-4**

**Date Collected: 03/04/16 13:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	<360		360	83	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: R14-3(0-1)-030416**

**Lab Sample ID: 500-108392-4**

**Date Collected: 03/04/16 13:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	<36		36	9.4	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/07/16 16:59	03/08/16 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137	03/07/16 16:59	03/08/16 23:15	1
2-Fluorobiphenyl	50		25 - 119	03/07/16 16:59	03/08/16 23:15	1
2-Fluorophenol	40		25 - 110	03/07/16 16:59	03/08/16 23:15	1
Nitrobenzene-d5	37		25 - 115	03/07/16 16:59	03/08/16 23:15	1
Phenol-d5	49		31 - 110	03/07/16 16:59	03/08/16 23:15	1
Terphenyl-d14	90		36 - 134	03/07/16 16:59	03/08/16 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:24	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:24	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:24	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 06:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 06:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Chromium</b>	<b>0.051</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Iron</b>	<b>47</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Lead</b>	<b>0.021</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
<b>Nickel</b>	<b>0.035</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 06:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: R14-3(0-1)-030416**

**Lab Sample ID: 500-108392-4**

**Date Collected: 03/04/16 13:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.3**

**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		03/10/16 08:54	03/11/16 06:56	1
<b>Zinc</b>	<b>0.36</b>	<b>J ^</b>	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 06:56	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	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Arsenic</b>	<b>8.1</b>		0.57	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Barium</b>	<b>23</b>		0.57	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Beryllium</b>	<b>0.27</b>		0.23	0.049	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Calcium</b>	<b>6400</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Chromium</b>	<b>10</b>	<b>B</b>	0.57	0.097	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Cobalt</b>	<b>4.6</b>		0.28	0.064	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Copper</b>	<b>7.7</b>		0.57	0.12	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Iron</b>	<b>15000</b>		11	4.4	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Lead</b>	<b>6.9</b>		0.28	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Magnesium</b>	<b>4000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Manganese</b>	<b>110</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Nickel</b>	<b>10</b>		0.57	0.15	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Potassium</b>	<b>350</b>		28	4.6	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Sodium</b>	<b>600</b>		57	7.5	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Vanadium</b>	<b>23</b>		0.28	0.083	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	1
<b>Zinc</b>	<b>25</b>		1.1	0.36	mg/Kg	☼	03/06/16 09:51	03/07/16 23:24	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		03/09/16 17:30	03/11/16 11:05	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		03/09/16 17:30	03/10/16 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>42</b>		18	9.6	ug/Kg	☼	03/07/16 19:00	03/11/16 10:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.22</b>		0.200	0.200	SU			03/08/16 16:18	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## 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
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. Babushkumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bondwood #Custer Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TCUP/SAP Metals	PH								
1		AL19-3(0-1)-030416	3-4-16	1320	2 S		X	X	X	X	X								
2		AL19-3(0-1)-030416(D)		1320															
3		ALF-1(0-1)-030416		1340															
4		R14-3(0-1)-030416		1345															
5		WL13-1(0-1)-030416		1355															
6		BR7-1(0-1)-030416		1410															
7		BR7-2(0-1)-030416		1415															
8		BR7-3(0-1)-030416		1425															
9		BR7-4(0-1)-030416		1445															
10		BR-7-5(0-1)-030416	3-4-16	1505	2 S		X	X	X	X	X								



Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Shil Sanyal</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>#85</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time <u>16:50</u>	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: 08/16/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: S. Babusukumar  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 580-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix										Comments	
<u>IDOT-040</u>				Date Time		Matrix													
Project Location/State <u>Braidwood &amp; Custer Park / IL</u>		Lab Project #																	
Sampler <u>T. Walls</u>		Lab PM <u>D. Wright</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
<u>11</u>		<u>BR7-6(0-1)-030416</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>12</u>		<u>BR7-6(0-1)-030416D</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<del><u>7-6-2016 3-4-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days standard \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CAT</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TALHE</u>	Date <u>03/04/16</u>	Time <u>10:50</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

23632 W. IL 113 (ISGS Site No. 2948-16)

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

County: Will Township: Custer

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

Latitude: 41.261004695 Longitude: -88.179959223

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113Latitude: 41.261004695 Longitude: -88.179959223Uncontaminated 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 ALF-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-16. SEE FIGURE 3-3 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: 500-108392-1.  
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

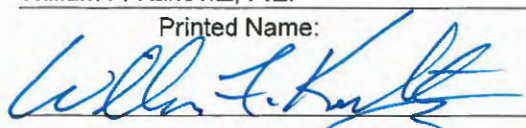
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-16**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	ALF-1(0-1)-030416	<b>Soil Reference Concentrations</b>
Sample Date	3/4/2016	
Location ID	ALF-1	
Depth	0 - 1	
Location Code	2948-16	
Parameter		
Laboratory pH	8.63	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	8.6 J	900 / 1100 / 1800
Benzo(a)pyrene	8.1 J	90 / 1300 / 2100
Benzo(b)fluoranthene	13 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7	11.3 / 13
Barium, Total	35 J	1500
Beryllium, Total	0.21	22
Cadmium, Total	ND	5.2
Calcium, Total	4800 J	---
Chromium, Total	7.4 B	21
Iron, Total	9100 J-	15000 / 15900
Lead, Total	15	107
Manganese, Total	120 J	630 / 636
Mercury, Total	0.029	0.89
Nickel, Total	5.2	100
Potassium, Total	290	---
Selenium, Total	0.32 J	1.3
Silver, Total	ND	4.4
Zinc, Total	25	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.33 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.35	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.65 B	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.013 J	0.05
Barium, SPLP	0.27 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.027	0.1
Iron, SPLP	21 J-	5
Lead, SPLP	0.022	0.0075
Manganese, SPLP	0.17	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.012 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-16**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108392-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 8:18:15 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.*

- 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: ALF-1(0-1)-030416**

**Lab Sample ID: 500-108392-3**

**Date Collected: 03/04/16 13:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/07/16 12:27	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 12:27	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/07/16 12:27	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:27	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:27	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 12:27	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/07/16 12:27	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/07/16 12:27	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/07/16 12:27	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 12:27	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 12:27	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 12:27	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 12:27	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/07/16 12:27	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/07/16 12:27	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 12:27	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/07/16 12:27	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 12:27	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 12:27	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 12:27	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 12:27	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 12:27	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 12:27	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 12:27	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 12:27	1
Dibromofluoromethane	106		75 - 120		03/07/16 12:27	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/07/16 12:27	1
Toluene-d8 (Surr)	104		75 - 122		03/07/16 12:27	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	41	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: ALF-1(0-1)-030416**

**Lab Sample ID: 500-108392-3**

**Date Collected: 03/04/16 13:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Benzo[a]anthracene</b>	<b>8.6 J</b>		38	5.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Benzo[a]pyrene</b>	<b>8.1 J</b>		38	7.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Benzo[b]fluoranthene</b>	<b>13 J</b>		38	8.3	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Chrysene</b>	<b>12 J</b>		38	10	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Fluoranthene</b>	<b>18 J</b>		38	7.1	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: ALF-1(0-1)-030416**

**Lab Sample ID: 500-108392-3**

**Date Collected: 03/04/16 13:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1
<b>Pyrene</b>	<b>16</b>	<b>J</b>	38	7.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	36		35 - 137	03/07/16 16:59	03/08/16 22:50	1
2-Fluorobiphenyl	44		25 - 119	03/07/16 16:59	03/08/16 22:50	1
2-Fluorophenol	51		25 - 110	03/07/16 16:59	03/08/16 22:50	1
Nitrobenzene-d5	44		25 - 115	03/07/16 16:59	03/08/16 22:50	1
Phenol-d5	47		31 - 110	03/07/16 16:59	03/08/16 22:50	1
Terphenyl-d14	51		36 - 134	03/07/16 16:59	03/08/16 22:50	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		03/09/16 15:27	03/10/16 18:18	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:18	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:18	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:18	1
<b>Zinc</b>	<b>0.65</b>	<b>B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.013</b>	<b>J</b>	0.050	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 06:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 06:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Chromium</b>	<b>0.027</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Iron</b>	<b>21</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 06:49	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: ALF-1(0-1)-030416**

**Lab Sample ID: 500-108392-3**

**Date Collected: 03/04/16 13:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.2**

**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		03/10/16 08:54	03/11/16 06:49	1
Zinc	0.34	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 06:49	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Arsenic	7.0		0.52	0.24	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Barium	35		0.52	0.095	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Beryllium	0.21		0.21	0.045	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Cadmium	0.039	J B	0.10	0.030	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Calcium	4800	B	10	3.3	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Chromium	7.4	B	0.52	0.089	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Cobalt	1.9		0.26	0.059	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Copper	4.2		0.52	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Iron	9100		10	4.0	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Lead	15		0.26	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Magnesium	2500	B	5.2	2.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Manganese	120	B	0.52	0.10	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Nickel	5.2		0.52	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Potassium	290		26	4.2	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Selenium	0.32	J	0.52	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Sodium	610		52	6.8	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Vanadium	12		0.26	0.076	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	1
Zinc	25		1.0	0.33	mg/Kg	☼	03/06/16 09:51	03/07/16 23:19	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		03/09/16 17:30	03/11/16 11:03	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		03/09/16 17:30	03/10/16 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		18	9.4	ug/Kg	☼	03/07/16 19:00	03/11/16 10:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/08/16 16:15	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## 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
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. Babushkumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bondwood #Custer Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TCUP/SAP Metals	PH								
1		AL19-3(0-1)-030416	3-4-16	1320	2 S		X	X	X	X	X								
2		AL19-3(0-1)-030416(D)		1320															
3		ALF-1(0-1)-030416		1340															
4		R14-3(0-1)-030416		1345															
5		WL13-1(0-1)-030416		1355															
6		BR7-1(0-1)-030416		1410															
7		BR7-2(0-1)-030416		1415															
8		BR7-3(0-1)-030416		1425															
9		BR7-4(0-1)-030416		1445															
10		BR-7-5(0-1)-030416	3-4-16	1505	2 S		X	X	X	X	X								



Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Shil Sanyal</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>#85</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time <u>16:50</u>	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: 08/16/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: S. Babusukumar  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 580-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix										Comments	
<u>IDOT-040</u>				Date Time		Matrix													
Project Location/State		Lab Project #																	
<u>Braidwood &amp; Custer Park / IL</u>																			
Sampler		Lab PM																	
<u>T. Walls</u>		<u>D. Wright</u>																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
<u>11</u>		<u>BR7-6(0-1)-030416</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>12</u>		<u>BR7-6(0-1)-030416D</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<del><u>7-6-2016 3-4-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days standard \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CAT</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TALHE</u>	Date <u>03/04/16</u>	Time <u>16:50</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

23619 W. IL 113 (ISGS Site No. 2948-17)

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

County: Will Township: Custer

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

Latitude: 41.260893254 Longitude: -88.179806144

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113Latitude: 41.260893254 Longitude: -88.179806144Uncontaminated 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 R17-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-17. SEE FIGURE 3-3 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: 500-108245-1.  
ALSO SEE FIGURE 4-3 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



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

**Summary Table of ISGS Site No. 2948-17**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R17-1(0-1)-030216	<b>Soil Reference Concentrations</b>
Sample Date	3/2/2016	
Location ID	R17-1	
Depth	0 - 1	
Location Code	2948-17	
Parameter		
Laboratory pH	8.12	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.9 J	11.3 / 13
Barium, Total	13	1500
Beryllium, Total	0.15 J	22
Cadmium, Total	0.045 J	5.2
Calcium, Total	1000 J	---
Chromium, Total	6.1 B	21
Iron, Total	5600 J	15000 / 15900
Lead, Total	3.7 J	107
Manganese, Total	42 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.7 B	100
Potassium, Total	210	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	15	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.13 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.063	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.012 J	0.05
Barium, SPLP	0.12 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.035	0.1
Iron, SPLP	28 J-	5
Lead, SPLP	0.017	0.0075
Manganese, SPLP	0.14	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.023 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5



**Summary Table of ISGS Site No. 2948-17**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 1
- 2
- 3
- 4
- 5
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- 8
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R17-1(0-1)-030216**

**Lab Sample ID: 500-108245-6**

**Date Collected: 03/02/16 13:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 83.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 16:08	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 16:08	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/03/16 16:08	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:08	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:08	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 16:08	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/03/16 16:08	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/03/16 16:08	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/03/16 16:08	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:08	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 16:08	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 16:08	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 16:08	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/03/16 16:08	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/03/16 16:08	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 16:08	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/03/16 16:08	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 16:08	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 16:08	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 16:08	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:08	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 16:08	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:08	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/03/16 16:08	1
Dibromofluoromethane	99		75 - 120		03/03/16 16:08	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/03/16 16:08	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 16:08	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	☼	03/06/16 10:59	03/07/16 16:25	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R17-1(0-1)-030216**

**Lab Sample ID: 500-108245-6**

**Date Collected: 03/02/16 13:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Anthracene	<38		38	6.5	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Benzo[a]pyrene	<38 *		38	7.5	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Benzo[b]fluoranthene	<38 *		38	8.3	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Carbazole	<190		190	97	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Chrysene	<38		38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Dibenz(a,h)anthracene	<38 *		38	7.5	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R17-1(0-1)-030216**

**Lab Sample ID: 500-108245-6**

**Date Collected: 03/02/16 13:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	10	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Isophorone	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Phenol	<190		190	86	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1
Pyrene	<38		38	7.7	ug/Kg	☼	03/06/16 10:59	03/07/16 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137	03/06/16 10:59	03/07/16 16:25	1
2-Fluorobiphenyl	70		25 - 119	03/06/16 10:59	03/07/16 16:25	1
2-Fluorophenol	87		25 - 110	03/06/16 10:59	03/07/16 16:25	1
Nitrobenzene-d5	63		25 - 115	03/06/16 10:59	03/07/16 16:25	1
Phenol-d5	76		31 - 110	03/06/16 10:59	03/07/16 16:25	1
Terphenyl-d14	114		36 - 134	03/06/16 10:59	03/07/16 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:20	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:20	1
<b>Manganese</b>	<b>0.063</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:20	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:20	1
<b>Zinc</b>	<b>0.057</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 18:59	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Iron</b>	<b>28</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 18:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R17-1(0-1)-030216**

**Lab Sample ID: 500-108245-6**

**Date Collected: 03/02/16 13:50**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 83.6**

**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		03/06/16 11:14	03/08/16 18:59	1
<b>Zinc</b>	<b>0.37</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 18:59	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	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Arsenic</b>	<b>1.9</b>		0.58	0.27	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Barium</b>	<b>13</b>		0.58	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Beryllium</b>	<b>0.15</b>	<b>J</b>	0.23	0.050	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Cadmium</b>	<b>0.045</b>	<b>J</b>	0.12	0.033	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Calcium</b>	<b>1000</b>		12	3.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Chromium</b>	<b>6.1</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/07/16 09:19	03/07/16 19:05	1
<b>Cobalt</b>	<b>2.1</b>		0.29	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Copper</b>	<b>3.6</b>		0.58	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Iron</b>	<b>5600</b>		12	4.4	mg/Kg	☼	03/07/16 09:19	03/07/16 19:05	1
<b>Lead</b>	<b>3.7</b>		0.29	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Magnesium</b>	<b>680</b>		5.8	2.3	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Manganese</b>	<b>42</b>		0.58	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Nickel</b>	<b>4.7</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Potassium</b>	<b>210</b>		29	4.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Sodium</b>	<b>150</b>		58	7.6	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Vanadium</b>	<b>9.0</b>		0.29	0.084	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1
<b>Zinc</b>	<b>15</b>		1.2	0.37	mg/Kg	☼	03/04/16 08:56	03/04/16 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:18	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		03/05/16 16:15	03/07/16 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>23</b>	<b>B</b>	19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 12:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.12</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids





# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108245 COC

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA							Comments	
<u>IDOT-040</u>				Date	Time															
Project Location/State		Lab PM																		
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																		
Sampler																				
<u>T. Walls</u>																				
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA								
1		F12-1(0-1)-030216		3-2-16	1305	2	S	X	X	X	X	↑								
2		<del>F12-1(0-1)-030216</del> F14-1(0-1)-030216D		↓	<del>1305</del> 1320	↓	↓	↓	↓	↓	↓	↓							F12-1(0-1)	
3		R14-1(0-1)-030216		↓	1320	↓	↓	↓	↓	↓	↓	↓								
4		WL15-1(0-1)-030216		↓	1330	↓	↓	↓	↓	↓	↓	↓								
5		R14-2(0-1)-030216		↓	1340	↓	↓	↓	↓	↓	↓	↓								
6		R17-1(0-1)-030216		↓	1350	↓	↓	↓	↓	↓	↓	↓								
7		F18-1(0-1)-030216		↓	1400	↓	↓	↓	↓	↓	↓	↓								
8		R20-1(0-1)-030216		↓	1410	↓	↓	↓	↓	↓	↓	↓								
9		<del>R22-1(0-1)-030216</del> AL19-1(0-1)-030216		↓	1425	↓	↓	↓	↓	↓	↓	↓							AL19-1(0-1)	
10		R22-1(0-1)-030216		3-2-16	1445	2	S	X	X	X	X	↑								

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key			
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		# of Containers		Matrix		Comments			
<u>IDOT-040</u>											
Project Location/State		Lab Project #		Date		Time					
<u>Braidwood &amp; Cresta Park/IL</u>											
Sampler		Lab PM		Date		Time					
<u>T. Walls</u>		<u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	pH
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>											

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
23535 W. IL 113 (ISGS Site No. 2948-18)

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

County: Will Township: Custer

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

Latitude: 41.260916170 Longitude: -88.178532954  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260916170 Longitude: -88.178532954

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 F18-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-18. SEE FIGURE 3-3 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: 500-108245-1.  
ALSO SEE FIGURE 4-3 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:

5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2948-18**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F18-1(0-1)-030216	<b>Soil Reference Concentrations</b>
Sample Date	3/2/2016	
Location ID	F18-1	
Depth	0 - 1	
Location Code	2948-18	
Parameter		
Laboratory pH	7.34	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	52	900 / 1100 / 1800
Benzo(a)pyrene	60 J	90 / 1300 / 2100
Benzo(b)fluoranthene	110 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	24 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	4 J	11.3 / 13
Barium, Total	27	1500
Beryllium, Total	0.27	22
Cadmium, Total	0.14 J	5.2
Calcium, Total	6700 J	---
Chromium, Total	7.3 B	21
Iron, Total	8200 J	15000 / 15900
Lead, Total	30 J	107
Manganese, Total	75 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	5.8 B	100
Potassium, Total	210	---
Selenium, Total	0.24 J	1.3
Silver, Total	ND	4.4
Zinc, Total	30	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.24 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.35	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.01 J	0.05
Barium, SPLP	0.16 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.034	0.1
Iron, SPLP	30 J-	5
Lead, SPLP	0.039	0.0075
Manganese, SPLP	0.16	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.02 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-18**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 1
- 2
- 3
- 4
- 5
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- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F18-1(0-1)-030216**

**Lab Sample ID: 500-108245-7**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 16:34	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 16:34	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 16:34	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 16:34	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 16:34	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 16:34	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 16:34	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 16:34	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/03/16 16:34	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 16:34	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 16:34	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 16:34	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 16:34	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 16:34	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 16:34	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 16:34	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/16 16:34	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 16:34	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 16:34	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 16:34	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 16:34	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 16:34	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 16:34	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 16:34	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 16:34	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122		03/03/16 16:34	1
Dibromofluoromethane	102		75 - 120		03/03/16 16:34	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/03/16 16:34	1
Toluene-d8 (Surr)	108		75 - 122		03/03/16 16:34	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	☼	03/06/16 10:59	03/07/16 16:54	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F18-1(0-1)-030216**

**Lab Sample ID: 500-108245-7**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**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	84	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Acenaphthylene</b>	<b>7.8</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Benzo[a]anthracene</b>	<b>52</b>		36	4.9	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Benzo[a]pyrene</b>	<b>60</b>	*	36	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>	*	36	7.9	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Benzo[g,h,i]perylene</b>	<b>22</b>	<b>J *</b>	36	12	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Benzo[k]fluoranthene</b>	<b>39</b>	*	36	11	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>67</b>	<b>J</b>	180	67	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Carbazole	<180		180	91	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Chrysene</b>	<b>65</b>		36	10	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Fluoranthene</b>	<b>85</b>		36	6.8	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F18-1(0-1)-030216**

**Lab Sample ID: 500-108245-7**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**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>24</b>	<b>J *</b>	36	9.5	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Isophorone	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Naphthalene</b>	<b>5.6</b>	<b>J</b>	36	5.6	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Phenanthrene</b>	<b>89</b>		36	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
Phenol	<180		180	81	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	1
<b>Pyrene</b>	<b>120</b>		36	7.3	ug/Kg	☼	03/06/16 10:59	03/07/16 16:54	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	85		35 - 137				03/06/16 10:59	03/07/16 16:54	1
2-Fluorobiphenyl	82		25 - 119				03/06/16 10:59	03/07/16 16:54	1
2-Fluorophenol	80		25 - 110				03/06/16 10:59	03/07/16 16:54	1
Nitrobenzene-d5	64		25 - 115				03/06/16 10:59	03/07/16 16:54	1
Phenol-d5	65		31 - 110				03/06/16 10:59	03/07/16 16:54	1
Terphenyl-d14	125		36 - 134				03/06/16 10:59	03/07/16 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:27	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:27	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:27	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:27	1
<b>Zinc</b>	<b>0.30</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:06	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Chromium</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Iron</b>	<b>30</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: F18-1(0-1)-030216**

**Lab Sample ID: 500-108245-7**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.0**

**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		03/06/16 11:14	03/08/16 19:06	1
<b>Zinc</b>	<b>0.61</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:06	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Arsenic</b>	<b>4.0</b>		0.48	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Barium</b>	<b>27</b>		0.48	0.088	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Beryllium</b>	<b>0.27</b>		0.19	0.041	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Cadmium</b>	<b>0.14</b>		0.096	0.028	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Calcium</b>	<b>6700</b>		9.6	3.1	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Chromium</b>	<b>7.3</b>	<b>B</b>	0.48	0.082	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Cobalt</b>	<b>2.4</b>		0.24	0.054	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Copper</b>	<b>5.3</b>		0.48	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Iron</b>	<b>8200</b>		11	4.4	mg/Kg	☼	03/07/16 09:19	03/07/16 19:09	1
<b>Lead</b>	<b>30</b>		0.24	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Magnesium</b>	<b>3700</b>		4.8	1.9	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Manganese</b>	<b>75</b>		0.48	0.095	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Nickel</b>	<b>5.8</b>	<b>B</b>	0.48	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Potassium</b>	<b>210</b>		24	3.9	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Selenium</b>	<b>0.24</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Sodium</b>	<b>300</b>		48	6.3	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Vanadium</b>	<b>12</b>		0.24	0.070	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	1
<b>Zinc</b>	<b>30</b>		0.96	0.30	mg/Kg	☼	03/04/16 08:56	03/04/16 21:09	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		03/07/16 15:00	03/08/16 14:20	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		03/05/16 16:15	03/07/16 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>39</b>	<b>B</b>	18	9.4	ug/Kg	☼	03/03/16 16:15	03/04/16 12:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.34</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108245 COC

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative							Preservative Key		
<u>Weston</u>											1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter							Comments		
<u>IDOT-040</u>													
Project Location/State		Lab PM											
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>											
Sampler													
<u>T. walls</u>													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA		
			Date	Time									
<u>1</u>		<u>F12-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1305</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>		
<u>2</u>		<u>F12-1(0-1)-030216D</u>		<u>1305</u>									<u>F12-1(0-1)</u>
<u>3</u>		<u>R14-1(0-1)-030216</u>		<u>1320</u>									
<u>4</u>		<u>WL15-1(0-1)-030216</u>		<u>1330</u>									
<u>5</u>		<u>R14-2(0-1)-030216</u>		<u>1340</u>									
<u>6</u>		<u>R17-1(0-1)-030216</u>		<u>1350</u>									
<u>7</u>		<u>F18-1(0-1)-030216</u>		<u>1400</u>									
<u>8</u>		<u>R20-1(0-1)-030216</u>		<u>1410</u>									
<u>9</u>		<u>AL19-1(0-1)-030216</u>		<u>1425</u>									<u>AL19-1(0-1)</u>
<u>10</u>		<u>R22-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1445</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>		

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

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

25400-25500 block of W. IL 113 (ISGS Site No. 2948-19)

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

County: Will Township: Custer

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

Latitude: 41.261066314 Longitude: -88.176498958

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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



Project Name: FAU 327: Illinois Route 113

Latitude: 41.261066314 Longitude: -88.176498958

**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 AL19-1 THROUGH AL19-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-19. SEE FIGURE 3-3 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 REPORTS - JOB ID: 500-108245-1, 500-108387-1, AND 500-108392-1. ALSO SEE FIGURE 4-3 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:

5 May 2016

Date:



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

**Summary Table of ISGS Site No. 2948-19**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AL19-1(0-1)-030216	AL19-2(0-1)-030416	AL19-3(0-1)-030416	AL19-3(0-1)-030416D	Soil Reference Concentrations
Sample Date	3/2/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	AL19-1	AL19-2	AL19-3	AL19-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-19	2948-19	2948-19	2948-19	
<b>Parameter</b>					
Laboratory pH	7.67	8.3	8.66	8.69	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected				
<b>SVOCs (ug/kg)</b>					
Benzo(a)anthracene	83 J	18 J	6.7 J	14 J	900 / 1100 / 1800
Benzo(a)pyrene	140 J	33 J	ND	14 J	90 / 1300 / 2100
Benzo(b)fluoranthene	200 J	20 J	8.1 J	18 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	78 J	ND	ND	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	2.2 J	8.6 J	3.7	3.4	11.3 / 13
Barium, Total	15	21 J	30 J	23 J	1500
Beryllium, Total	0.21	0.23	0.2 J	0.18 J	22
Cadmium, Total	0.13 J	0.19	ND	ND	5.2
Calcium, Total	12000 J	30000 J	12000 J	10000 J	---
Chromium, Total	6.1 B	8.2 J	6.3 B	6.1 B	21
Iron, Total	6100 J	9700 J	6400 J-	5700 J-	15000 / 15900
Lead, Total	23 J	40 J	11	12	107
Manganese, Total	83 J	110 J	100 J	87 J	630 / 636
Mercury, Total	ND	0.032 J	0.027	0.018	0.89
Nickel, Total	6.1 B	5.1	4.7	4.4	100
Potassium, Total	290	280 J	260	260	---
Selenium, Total	0.25 J	0.46 J	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	4.4
Zinc, Total	27	23	23	20	5100
<b>TCLP Metals (mg/l)</b>					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.22 J	0.21 J	0.2 J	0.19 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	0.12	ND	ND	ND	0.0075
Manganese, TCLP	0.35	0.66	0.51	0.47	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	1.5 J+	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	ND	0.011 J	0.014 J	0.021 J	0.05
Barium, SPLP	0.11 J	0.13 J	0.25 J	0.28 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.032	0.024 J	0.035	0.046	0.1
Iron, SPLP	29 J-	26 J	28 J-	40 J-	5
Lead, SPLP	0.058	0.08	0.032	0.043	0.0075
Manganese, SPLP	0.21	0.21	0.24	0.34	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.027	0.017 J	0.022 J	0.029	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	1.2 B	0.12 J	ND	ND	5

**Summary Table of ISGS Site No. 2948-19**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 1
- 2
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: AL19-1(0-1)-030216**

**Lab Sample ID: 500-108245-9**

**Date Collected: 03/02/16 14:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 17:25	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 17:25	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 17:25	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 17:25	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 17:25	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 17:25	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 17:25	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 17:25	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/03/16 17:25	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 17:25	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 17:25	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 17:25	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 17:25	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 17:25	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 17:25	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 17:25	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/16 17:25	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 17:25	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 17:25	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 17:25	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 17:25	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 17:25	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 17:25	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 17:25	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/03/16 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/03/16 17:25	1
Dibromofluoromethane	100		75 - 120		03/03/16 17:25	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/03/16 17:25	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 17:25	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	☼	03/06/16 10:59	03/07/16 17:53	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: AL19-1(0-1)-030216**

**Lab Sample ID: 500-108245-9**

**Date Collected: 03/02/16 14:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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	<370		370	85	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>2-Methylnaphthalene</b>	<b>7.1</b>	<b>J</b>	37	6.8	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Acenaphthene</b>	<b>7.0</b>	<b>J</b>	37	6.7	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Anthracene</b>	<b>13</b>	<b>J</b>	37	6.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Benzo[a]anthracene</b>	<b>83</b>	<b>*</b>	37	5.0	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Benzo[a]pyrene</b>	<b>140</b>	<b>*</b>	37	7.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Benzo[b]fluoranthene</b>	<b>200</b>	<b>*</b>	37	8.0	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Benzo[g,h,i]perylene</b>	<b>58</b>	<b>*</b>	37	12	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Benzo[k]fluoranthene</b>	<b>100</b>	<b>*</b>	37	11	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>110</b>	<b>J *</b>	190	68	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Carbazole	<190		190	93	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Chrysene</b>	<b>82</b>	<b>*</b>	37	10	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Dibenz(a,h)anthracene</b>	<b>20</b>	<b>J *</b>	37	7.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Fluoranthene</b>	<b>87</b>		37	6.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Fluorene</b>	<b>5.4</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: AL19-1(0-1)-030216**

**Lab Sample ID: 500-108245-9**

**Date Collected: 03/02/16 14:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**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>78</b>	*	37	9.6	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Isophorone	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Phenanthrene</b>	<b>77</b>		37	5.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Phenol	<190		190	82	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
<b>Pyrene</b>	<b>160</b>	*	37	7.4	ug/Kg	☼	03/06/16 10:59	03/07/16 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		35 - 137				03/06/16 10:59	03/07/16 17:53	1
2-Fluorobiphenyl	70		25 - 119				03/06/16 10:59	03/07/16 17:53	1
2-Fluorophenol	80		25 - 110				03/06/16 10:59	03/07/16 17:53	1
Nitrobenzene-d5	62		25 - 115				03/06/16 10:59	03/07/16 17:53	1
Phenol-d5	76		31 - 110				03/06/16 10:59	03/07/16 17:53	1
Terphenyl-d14	171	*X	36 - 134				03/06/16 10:59	03/07/16 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
<b>Barium</b>	<b>0.22</b>	J	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
<b>Copper</b>	<b>0.011</b>	J	0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:56	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:56	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:56	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:56	1
<b>Zinc</b>	<b>1.5</b>	B	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Barium</b>	<b>0.11</b>	J	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:19	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Chromium</b>	<b>0.032</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Copper</b>	<b>0.021</b>	J	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Iron</b>	<b>29</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Lead</b>	<b>0.058</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: AL19-1(0-1)-030216**

**Lab Sample ID: 500-108245-9**

**Date Collected: 03/02/16 14:25**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 86.5**

**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		03/06/16 11:14	03/08/16 19:19	1
<b>Zinc</b>	<b>1.2</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.88		0.88	0.18	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Arsenic</b>	<b>2.2</b>		0.44	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Barium</b>	<b>15</b>		0.44	0.080	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Beryllium</b>	<b>0.21</b>		0.18	0.038	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Cadmium</b>	<b>0.13</b>		0.088	0.025	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Calcium</b>	<b>12000</b>		8.8	2.8	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Chromium</b>	<b>6.1</b>	<b>B</b>	0.44	0.076	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Cobalt</b>	<b>2.4</b>		0.22	0.050	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Copper</b>	<b>4.6</b>		0.44	0.095	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Iron</b>	<b>6100</b>		11	4.4	mg/Kg	☼	03/07/16 09:19	03/07/16 19:17	1
<b>Lead</b>	<b>23</b>		0.22	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Magnesium</b>	<b>7200</b>		4.4	1.8	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Manganese</b>	<b>83</b>		0.44	0.087	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Nickel</b>	<b>6.1</b>	<b>B</b>	0.44	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Potassium</b>	<b>290</b>		22	3.6	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Selenium</b>	<b>0.25</b>	<b>J</b>	0.44	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
Silver	<0.22		0.22	0.051	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Sodium</b>	<b>140</b>		44	5.8	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
Thallium	<0.44		0.44	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Vanadium</b>	<b>10</b>		0.22	0.064	mg/Kg	☼	03/04/16 08:56	03/04/16 21:26	1
<b>Zinc</b>	<b>27</b>		1.1	0.36	mg/Kg	☼	03/07/16 09:19	03/07/16 19:17	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		03/07/16 15:00	03/08/16 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>48</b>	<b>B</b>	19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 12:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.67</b>		0.200	0.200	SU			03/03/16 23:36	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-108245 COC

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments							
<u>1</u>		<u>F12-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1305</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>								
<u>2</u>		<u>F12-1(0-1)-030216D</u>		<u>1305</u>								<u>F12-1(0-1)</u>							
<u>3</u>		<u>R14-1(0-1)-030216</u>		<u>1320</u>															
<u>4</u>		<u>WL15-1(0-1)-030216</u>		<u>1330</u>															
<u>5</u>		<u>R14-2(0-1)-030216</u>		<u>1340</u>															
<u>6</u>		<u>R17-1(0-1)-030216</u>		<u>1350</u>															
<u>7</u>		<u>F18-1(0-1)-030216</u>		<u>1400</u>															
<u>8</u>		<u>R20-1(0-1)-030216</u>		<u>1410</u>															
<u>9</u>		<u>AL19-1(0-1)-030216</u>		<u>1425</u>								<u>AL19-1(0-1)</u>							
<u>10</u>		<u>R22-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1445</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>								

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

## Chain of Custody Record

Lab Job #: 500-108245  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

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

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

Matrix Key

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL19-2(0-1)-030416**

**Lab Sample ID: 500-108387-20**

**Date Collected: 03/04/16 13:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 15:36	1
Benzene	<5.7	F1	5.7	1.3	ug/Kg	☼		03/05/16 15:36	1
Bromodichloromethane	<5.7	F1	5.7	0.97	ug/Kg	☼		03/05/16 15:36	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
Bromomethane	<5.7	F1	5.7	2.1	ug/Kg	☼		03/05/16 15:36	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:36	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
Chlorobenzene	<5.7	F1	5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/05/16 15:36	1
Chloroform	<5.7	F1	5.7	1.1	ug/Kg	☼		03/05/16 15:36	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
cis-1,2-Dichloroethene	<5.7	F1	5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
cis-1,3-Dichloropropene	<5.7	F1	5.7	1.3	ug/Kg	☼		03/05/16 15:36	1
Dibromochloromethane	<5.7	F1	5.7	0.66	ug/Kg	☼		03/05/16 15:36	1
1,1-Dichloroethane	<5.7	F1	5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
1,2-Dichloroethane	<5.7	F1	5.7	0.85	ug/Kg	☼		03/05/16 15:36	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:36	1
1,2-Dichloropropane	<5.7	F1	5.7	1.5	ug/Kg	☼		03/05/16 15:36	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:36	1
Ethylbenzene	<5.7	F1	5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 15:36	1
Methylene Chloride	<5.7	F1	5.7	4.3	ug/Kg	☼		03/05/16 15:36	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 15:36	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
Styrene	<5.7	F1	5.7	1.3	ug/Kg	☼		03/05/16 15:36	1
1,1,2,2-Tetrachloroethane	<5.7	F1	5.7	0.91	ug/Kg	☼		03/05/16 15:36	1
Tetrachloroethene	<5.7	F1	5.7	1.2	ug/Kg	☼		03/05/16 15:36	1
Toluene	<5.7	F1	5.7	2.0	ug/Kg	☼		03/05/16 15:36	1
trans-1,2-Dichloroethene	<5.7	F1	5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
trans-1,3-Dichloropropene	<5.7	F1	5.7	1.6	ug/Kg	☼		03/05/16 15:36	1
1,1,1-Trichloroethane	<5.7	F1	5.7	1.3	ug/Kg	☼		03/05/16 15:36	1
1,1,2-Trichloroethane	<5.7	F1	5.7	1.1	ug/Kg	☼		03/05/16 15:36	1
Trichloroethene	<5.7	F1	5.7	1.5	ug/Kg	☼		03/05/16 15:36	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:36	1
Xylenes, Total	<11	F1	11	2.1	ug/Kg	☼		03/05/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/05/16 15:36	1
Dibromofluoromethane	104		75 - 120		03/05/16 15:36	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 15:36	1
Toluene-d8 (Surr)	110		75 - 122		03/05/16 15:36	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	☼	03/07/16 07:05	03/08/16 09:17	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL19-2(0-1)-030416**

**Lab Sample ID: 500-108387-20**

**Date Collected: 03/04/16 13:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.2**

**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	82	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>2-Methylnaphthalene</b>	<b>8.6</b>	<b>J</b>	36	6.6	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Bromophenyl phenyl ether	<180	*	180	48	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Benzo[a]anthracene</b>	<b>18</b>	<b>J</b>	36	4.8	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Benzo[a]pyrene</b>	<b>33</b>	<b>J*</b>	36	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Benzo[b]fluoranthene</b>	<b>20</b>	<b>J*</b>	36	7.8	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Benzo[k]fluoranthene</b>	<b>22</b>	<b>J*</b>	36	11	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Chrysene</b>	<b>27</b>	<b>J</b>	36	9.8	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Fluoranthene</b>	<b>23</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Hexachlorobenzene	<73	*	73	8.4	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL19-2(0-1)-030416**

**Lab Sample ID: 500-108387-20**

**Date Collected: 03/04/16 13:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.2**

## 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	<36	*	36	9.3	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Phenanthrene</b>	<b>52</b>		36	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
<b>Pyrene</b>	<b>61</b>		36	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 09:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/07/16 07:05	03/08/16 09:17	1
2-Fluorobiphenyl	95		25 - 119				03/07/16 07:05	03/08/16 09:17	1
2-Fluorophenol	83		25 - 110				03/07/16 07:05	03/08/16 09:17	1
Nitrobenzene-d5	89		25 - 115				03/07/16 07:05	03/08/16 09:17	1
Phenol-d5	78		31 - 110				03/07/16 07:05	03/08/16 09:17	1
Terphenyl-d14	214	X	36 - 134				03/07/16 07:05	03/08/16 09:17	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:46	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 23:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 23:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
<b>Copper</b>	<b>0.013</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 23:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:46	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 23:29	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:29	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 23:29	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		03/08/16 14:49	03/09/16 16:28	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Chromium</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Iron</b>	<b>26</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Lead</b>	<b>0.080</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:28	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 16:28	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL19-2(0-1)-030416**

**Lab Sample ID: 500-108387-20**

**Date Collected: 03/04/16 13:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.2**

**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		03/08/16 14:49	03/09/16 16:28	1
<b>Zinc</b>	<b>0.12</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 16:28	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Arsenic</b>	<b>8.6</b>	<b>F2 F1</b>	0.55	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Barium</b>	<b>21</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Beryllium</b>	<b>0.23</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Calcium</b>	<b>30000</b>	<b>F2</b>	11	3.5	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Chromium</b>	<b>8.2</b>	<b>F1 B</b>	0.55	0.094	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Cobalt</b>	<b>2.4</b>		0.27	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Copper</b>	<b>3.7</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Iron</b>	<b>9700</b>	<b>F2</b>	11	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Lead</b>	<b>40</b>		0.27	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Magnesium</b>	<b>21000</b>	<b>F2</b>	5.5	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Manganese</b>	<b>110</b>	<b>F2</b>	0.55	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Nickel</b>	<b>5.1</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Potassium</b>	<b>280</b>	<b>F1</b>	27	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Sodium</b>	<b>370</b>		55	7.2	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Vanadium</b>	<b>11</b>		0.27	0.080	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	1
<b>Zinc</b>	<b>23</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 16:20	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		03/07/16 15:00	03/10/16 17:40	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		03/08/16 19:15	03/10/16 18:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>32</b>		17	8.7	ug/Kg	☼	03/07/16 19:00	03/10/16 19:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.30</b>		0.200	0.200	SU			03/07/16 17:42	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number:  
Page 1 of 4  
Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA/CHU</u>	Date <u>03/04/16</u>	Time <u>1650</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA/CHU  
 Shipped:   
 Hand Delivered:

<p>Matrix Key</p> <ul style="list-style-type: none"> <li>WW - Wastewater</li> <li>W - Water</li> <li>S - Soil</li> <li>SL - Sludge</li> <li>MS - Miscellaneous</li> <li>OL - Oil</li> <li>A - Air</li> <li>SE - Sediment</li> <li>SO - Soil</li> <li>L - Leachate</li> <li>WI - Wipe</li> <li>DW - Drinking Water</li> <li>O - Other</li> </ul>	Client Comments:	Lab Comments:
---	------------------	---------------

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative		Parameter		Comments			
<u>Weston</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		# of Containers		Matrix					
<u>IDOT-040</u>											
Project Location/State		Lab PM									
<u>Broadwood &amp; Carter Park/IL</u>		<u>D. Wright</u>									
Sampler		Date		Time		Total Metals		TCLP/SP4 Metals			
<u>T. Walls</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SP4 Metals	PH
11		R25-1(0-1)-030416	3-4-16	1120	2 S		X	X	X	X	X
12		R25-1(0-1)-030416D		1120							
13		SR-8(0-1)-030416		1135							
14		AL23-1(0-1)-030416		1145							
15		AL23-2(0-1)-030416		1200							
16		AL23-3(0-1)-030416		1210							
17		AL23-4(0-1)-030416		1220							
18		WL21-1(0-1)-030416		1255							
19		WL21-2(0-1)-030416		1305							
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z...</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>TOR</u>	Company <u>TA-CME</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>TOR</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>David Jones</u>	Company <u>TA-CME</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CME  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108392-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 8:18:15 AM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416**

**Lab Sample ID: 500-108392-1**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/07/16 10:46	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 10:46	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/07/16 10:46	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
Bromomethane	<5.8	F1	5.8	2.1	ug/Kg	☼		03/07/16 10:46	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 10:46	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
Chlorobenzene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/07/16 10:46	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 10:46	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 10:46	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/07/16 10:46	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/07/16 10:46	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 10:46	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 10:46	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 10:46	1
Ethylbenzene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/07/16 10:46	1
Methylene Chloride	<5.8	F1	5.8	4.4	ug/Kg	☼		03/07/16 10:46	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 10:46	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
Styrene	<5.8	F1	5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
1,1,1,2-Tetrachloroethane	<5.8	F1	5.8	0.92	ug/Kg	☼		03/07/16 10:46	1
Tetrachloroethene	<5.8	F1	5.8	1.2	ug/Kg	☼		03/07/16 10:46	1
Toluene	<5.8	F1	5.8	2.0	ug/Kg	☼		03/07/16 10:46	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 10:46	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 10:46	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 10:46	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 10:46	1
Trichloroethene	<5.8	F1	5.8	1.6	ug/Kg	☼		03/07/16 10:46	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 10:46	1
Xylenes, Total	<12	F1	12	2.1	ug/Kg	☼		03/07/16 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/07/16 10:46	1
Dibromofluoromethane	104		75 - 120		03/07/16 10:46	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/07/16 10:46	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 10:46	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	☼	03/07/16 16:59	03/08/16 22:00	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416**

**Lab Sample ID: 500-108392-1**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	☼	03/07/16 16:59	03/08/16 22:00	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Benzo[a]anthracene</b>	<b>6.7 J</b>		37	5.0	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Benzo[b]fluoranthene</b>	<b>8.1 J</b>		37	8.0	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Chrysene</b>	<b>10 J</b>		37	10	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Fluoranthene</b>	<b>11 J</b>		37	6.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416**

**Lab Sample ID: 500-108392-1**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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		37	9.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Phenanthrene</b>	<b>50</b>		37	5.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
<b>Pyrene</b>	<b>13 J</b>		37	7.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				03/07/16 16:59	03/08/16 22:00	1
2-Fluorobiphenyl	70		25 - 119				03/07/16 16:59	03/08/16 22:00	1
2-Fluorophenol	79		25 - 110				03/07/16 16:59	03/08/16 22:00	1
Nitrobenzene-d5	71		25 - 115				03/07/16 16:59	03/08/16 22:00	1
Phenol-d5	75		31 - 110				03/07/16 16:59	03/08/16 22:00	1
Terphenyl-d14	85		36 - 134				03/07/16 16:59	03/08/16 22:00	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
<b>Barium</b>	<b>0.20 J</b>		0.50	0.050	mg/L		03/09/16 15:27	03/10/16 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 17:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 17:13	1
<b>Manganese</b>	<b>0.51</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 17:13	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 17:13	1
<b>Zinc</b>	<b>0.19 J B</b>		0.50	0.020	mg/L		03/09/16 15:27	03/10/16 17:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014 J</b>		0.050	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Barium</b>	<b>0.25 J</b>		0.50	0.050	mg/L		03/10/16 08:54	03/11/16 05:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 05:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Copper</b>	<b>0.022 J</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Iron</b>	<b>28</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Lead</b>	<b>0.032</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
<b>Nickel</b>	<b>0.022 J</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 05:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 05:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416**

**Lab Sample ID: 500-108392-1**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.1**

**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		03/10/16 08:54	03/11/16 05:59	1
<b>Zinc</b>	<b>0.48</b>	<b>J ^</b>	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 05:59	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.22	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Arsenic</b>	<b>3.7</b>		0.53	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Barium</b>	<b>30</b>		0.53	0.098	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Beryllium</b>	<b>0.20</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Cadmium</b>	<b>0.10</b>	<b>J B</b>	0.11	0.031	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Calcium</b>	<b>12000</b>	<b>B F2</b>	11	3.4	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Chromium</b>	<b>6.3</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Cobalt</b>	<b>1.8</b>		0.27	0.060	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Copper</b>	<b>4.8</b>		0.53	0.12	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Iron</b>	<b>6400</b>		11	4.1	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Lead</b>	<b>11</b>		0.27	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Magnesium</b>	<b>6800</b>	<b>B F2</b>	5.3	2.2	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Manganese</b>	<b>100</b>	<b>B F2</b>	0.53	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Nickel</b>	<b>4.7</b>		0.53	0.14	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Potassium</b>	<b>260</b>		27	4.4	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Sodium</b>	<b>590</b>	<b>F1</b>	53	7.0	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Vanadium</b>	<b>11</b>		0.27	0.078	mg/Kg	☼	03/06/16 09:51	03/07/16 22:44	1
<b>Zinc</b>	<b>23</b>		1.1	0.34	mg/Kg	☼	03/06/16 09:51	03/08/16 14:10	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 10:51	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		03/09/16 17:30	03/10/16 22:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>27</b>		19	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 10:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.66</b>		0.200	0.200	SU			03/08/16 16:11	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416D**

**Lab Sample ID: 500-108392-2**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/07/16 12:02	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 12:02	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/07/16 12:02	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 12:02	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 12:02	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/07/16 12:02	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 12:02	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 12:02	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/07/16 12:02	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/07/16 12:02	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 12:02	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 12:02	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 12:02	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/07/16 12:02	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/07/16 12:02	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/07/16 12:02	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 12:02	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/07/16 12:02	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 12:02	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/07/16 12:02	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 12:02	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 12:02	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 12:02	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 12:02	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 12:02	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/07/16 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/07/16 12:02	1
Dibromofluoromethane	102		75 - 120		03/07/16 12:02	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/07/16 12:02	1
Toluene-d8 (Surr)	104		75 - 122		03/07/16 12:02	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	☼	03/07/16 16:59	03/08/16 22:25	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416D**

**Lab Sample ID: 500-108392-2**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:59**

**Percent Solids: 86.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Benzo[a]anthracene</b>	<b>14 J</b>		35	4.8	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Benzo[a]pyrene</b>	<b>14 J</b>		35	6.8	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Benzo[b]fluoranthene</b>	<b>18 J</b>		35	7.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Carbazole	<180		180	88	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Chrysene</b>	<b>19 J</b>		35	9.6	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Dibenz(a,h)anthracene	<35		35	6.8	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Fluoranthene</b>	<b>23 J</b>		35	6.5	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416D**

**Lab Sample ID: 500-108392-2**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	9.2	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Phenanthrene</b>	<b>52</b>		35	4.9	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Phenol	<180		180	78	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
<b>Pyrene</b>	<b>38</b>		35	7.0	ug/Kg	☼	03/07/16 16:59	03/08/16 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137				03/07/16 16:59	03/08/16 22:25	1
2-Fluorobiphenyl	56		25 - 119				03/07/16 16:59	03/08/16 22:25	1
2-Fluorophenol	49		25 - 110				03/07/16 16:59	03/08/16 22:25	1
Nitrobenzene-d5	46		25 - 115				03/07/16 16:59	03/08/16 22:25	1
Phenol-d5	55		31 - 110				03/07/16 16:59	03/08/16 22:25	1
Terphenyl-d14	84		36 - 134				03/07/16 16:59	03/08/16 22:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 18:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 18:11	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 18:11	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 18:11	1
<b>Zinc</b>	<b>0.16</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 18:11	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		03/10/16 08:54	03/11/16 06:42	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 08:54	03/11/16 06:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 08:54	03/11/16 06:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Chromium</b>	<b>0.046</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Copper</b>	<b>0.030</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Iron</b>	<b>40</b>		0.40	0.20	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Lead</b>	<b>0.043</b>		0.0075	0.0075	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:42	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 06:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 08:54	03/11/16 06:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

**Client Sample ID: AL19-3(0-1)-030416D**

**Lab Sample ID: 500-108392-2**

**Date Collected: 03/04/16 13:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.9**

**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		03/10/16 08:54	03/11/16 06:42	1
Zinc	0.24	J ^	0.50	0.020	mg/L		03/10/16 08:54	03/11/16 06:42	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	☼	03/06/16 09:51	03/07/16 23:15	1
Arsenic	3.4		0.54	0.25	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Barium	23		0.54	0.099	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Beryllium	0.18	J	0.22	0.047	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Cadmium	0.086	J B	0.11	0.031	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Calcium	10000	B	11	3.5	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Chromium	6.1	B	0.54	0.093	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Cobalt	1.7		0.27	0.061	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Copper	4.0		0.54	0.12	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Iron	5700		11	4.2	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Lead	12		0.27	0.13	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Magnesium	5800	B	5.4	2.2	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Manganese	87	B	0.54	0.11	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Nickel	4.4		0.54	0.15	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Potassium	260		27	4.4	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Sodium	480		54	7.1	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Vanadium	11		0.27	0.079	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	1
Zinc	20		1.1	0.34	mg/Kg	☼	03/06/16 09:51	03/07/16 23:15	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		03/09/16 17:30	03/11/16 10:53	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		03/09/16 17:30	03/10/16 22:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		17	9.2	ug/Kg	☼	03/07/16 19:00	03/11/16 10:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			03/08/16 16:13	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108392-1

## 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
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. Babushkumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: same  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108392  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SPLP Metals		PH		 500-108392 COC 9. Other Comments
Project Name		Lab Project #		# of Containers		Matrix								
Lab ID	MS/MSD	Sample ID	Date	Time										
Weston														500-108392 COC 9. Other Comments
INOT-040														
Project Location/State		Lab Project #												
Barrwood #Custer Park/IL														
Sampler		Lab PM												
T. Walls		D. Wright												
1		AL19-3(0-1)-030416	3-4-16	1320	2 S	X	X	X	X	X				
2		AL19-3(0-1)-030416(D)		1320										
3		ALF-1(0-1)-030416		1340										
4		R14-3(0-1)-030416		1345										
5		WL13-1(0-1)-030416		1355										
6		BR7-1(0-1)-030416		1410										
7		BR7-2(0-1)-030416		1415										
8		BR7-3(0-1)-030416		1425										
9		BR7-4(0-1)-030416		1445										
10		BR-7-5(0-1)-030416	3-4-16	1505	2 S	X	X	X	X	X				

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Shil Sanyal</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>#85</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time <u>16:50</u>	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:  
08/16/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: Savage  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 580-108392  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter										Preservative Key	
<u>Weston</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments	
<u>IDOT-040</u>				Date Time		Matrix											
Project Location/State		Lab Project #															
<u>Braidwood &amp; Custer Park / IL</u>																	
Sampler		Lab PM															
<u>T. Walls</u>		<u>D. Wright</u>															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix											
<u>11</u>		<u>BR7-6(0-1)-030416</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>12</u>		<u>BR7-6(0-1)-030416D</u>	<u>3-4-16</u>	<u>1515</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<del><u>7-6-2016 3-4-16</u></del>																	

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  standard Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1535</u>	Lab Courier <u>TA-CAT</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TALHE</u>	Date <u>03/04/16</u>	Time <u>10:50</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
23457-23525 W. IL 113 (ISGS Site No. 2948-20)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.260941366 Longitude: -88.177133232  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.260941366 Longitude: -88.177133232

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 R20-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-20. SEE FIGURE 3-3 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: 500-108245-1.  
ALSO SEE FIGURE 4-3 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:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-20**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R20-1(0-1)-030216	<b>Soil Reference Concentrations</b>
Sample Date	3/2/2016	
Location ID	R20-1	
Depth	0 - 1	
Location Code	2948-20	
Parameter		
Laboratory pH	7.25	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	51	900 / 1100 / 1800
Benzo(a)pyrene	64 J	90 / 1300 / 2100
Benzo(b)fluoranthene	130 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	32 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.6 J	11.3 / 13
Barium, Total	18	1500
Beryllium, Total	0.14 J	22
Cadmium, Total	0.16 J	5.2
Calcium, Total	12000 J	---
Chromium, Total	14 B	21
Iron, Total	4400 J	15000 / 15900
Lead, Total	15 J	107
Manganese, Total	110 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	3.7 B	100
Potassium, Total	210	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	28	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.2 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.56	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.39 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.062 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.013 J	0.1
Iron, SPLP	8.9 J-	5
Lead, SPLP	0.021	0.0075
Manganese, SPLP	0.14	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-20**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 1
- 2
- 3
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- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R20-1(0-1)-030216**

**Lab Sample ID: 500-108245-8**

**Date Collected: 03/02/16 14:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 16:59	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 16:59	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/03/16 16:59	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 16:59	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 16:59	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 16:59	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/03/16 16:59	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 16:59	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/03/16 16:59	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/03/16 16:59	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 16:59	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 16:59	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 16:59	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 16:59	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/03/16 16:59	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/03/16 16:59	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 16:59	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/03/16 16:59	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 16:59	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 16:59	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 16:59	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 16:59	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/03/16 16:59	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 16:59	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 16:59	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/03/16 16:59	1
Dibromofluoromethane	101		75 - 120		03/03/16 16:59	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/03/16 16:59	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 16:59	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	☼	03/06/16 10:59	03/07/16 17:24	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R20-1(0-1)-030216**

**Lab Sample ID: 500-108245-8**

**Date Collected: 03/02/16 14:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Anthracene</b>	<b>7.2</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Benzo[a]anthracene</b>	<b>51</b>		38	5.2	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Benzo[a]pyrene</b>	<b>64</b>	<b>*</b>	38	7.4	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Benzo[b]fluoranthene</b>	<b>130</b>	<b>*</b>	38	8.3	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Benzo[g,h,i]perylene</b>	<b>30</b>	<b>J *</b>	38	12	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Benzo[k]fluoranthene</b>	<b>46</b>	<b>*</b>	38	11	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Carbazole	<190		190	96	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Chrysene</b>	<b>69</b>		38	10	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Dibenz(a,h)anthracene	<38	<b>*</b>	38	7.4	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Fluoranthene</b>	<b>110</b>		38	7.1	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R20-1(0-1)-030216**

**Lab Sample ID: 500-108245-8**

**Date Collected: 03/02/16 14:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>32</b>	<b>J *</b>	38	9.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Isophorone	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Phenanthrene</b>	<b>65</b>		38	5.3	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
Phenol	<190		190	85	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	1
<b>Pyrene</b>	<b>170</b>		38	7.6	ug/Kg	☼	03/06/16 10:59	03/07/16 17:24	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	102		35 - 137				03/06/16 10:59	03/07/16 17:24	1
2-Fluorobiphenyl	74		25 - 119				03/06/16 10:59	03/07/16 17:24	1
2-Fluorophenol	87		25 - 110				03/06/16 10:59	03/07/16 17:24	1
Nitrobenzene-d5	54		25 - 115				03/06/16 10:59	03/07/16 17:24	1
Phenol-d5	76		31 - 110				03/06/16 10:59	03/07/16 17:24	1
Terphenyl-d14	159	X	36 - 134				03/06/16 10:59	03/07/16 17:24	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 01:33	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 01:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 01:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 01:33	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 01:33	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 01:33	1
<b>Zinc</b>	<b>0.39</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 01:33	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
<b>Barium</b>	<b>0.062</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:12	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
<b>Iron</b>	<b>8.9</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:12	1
<b>Lead</b>	<b>0.021</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:12	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R20-1(0-1)-030216**

**Lab Sample ID: 500-108245-8**

**Date Collected: 03/02/16 14:10**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.6**

**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		03/06/16 11:14	03/08/16 19:12	1
<b>Zinc</b>	<b>0.37</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Arsenic</b>	<b>1.6</b>		0.52	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Barium</b>	<b>18</b>		0.52	0.096	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Cadmium</b>	<b>0.16</b>		0.10	0.030	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Calcium</b>	<b>12000</b>		10	3.4	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Cobalt</b>	<b>1.5</b>		0.26	0.059	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Copper</b>	<b>4.0</b>		0.52	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Iron</b>	<b>4400</b>		11	4.3	mg/Kg	☼	03/07/16 09:19	03/07/16 19:13	1
<b>Lead</b>	<b>15</b>		0.26	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Magnesium</b>	<b>6700</b>		5.2	2.1	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Manganese</b>	<b>110</b>		0.52	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Nickel</b>	<b>3.7</b>	<b>B</b>	0.52	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Potassium</b>	<b>210</b>		26	4.3	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Sodium</b>	<b>490</b>		52	6.9	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Vanadium</b>	<b>8.9</b>		0.26	0.076	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	1
<b>Zinc</b>	<b>28</b>		1.0	0.33	mg/Kg	☼	03/04/16 08:56	03/04/16 21:13	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		03/07/16 15:00	03/08/16 14:54	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>21</b>	<b>B</b>	17	9.2	ug/Kg	☼	03/03/16 16:15	03/04/16 12:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.25</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
*	ISTD response or retention time outside acceptable 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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108245 COC

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
Sampler																			
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
1		F12-1(0-1)-030216		3-2-16	1305	2	S	X	X	X	X	T							
2		<del>F12-1(0-1)-030216</del> F14-1(0-1)-030216D			<del>1305</del> 1320								F12-1(0-1)						
3		R14-1(0-1)-030216			1320														
4		WL15-1(0-1)-030216			1330														
5		R14-2(0-1)-030216			1340														
6		R17-1(0-1)-030216			1350														
7		F18-1(0-1)-030216			1400														
8		R20-1(0-1)-030216			1410														
9		<del>R22-1(0-1)-030216</del> AL19-1			1425								AL19-1(0-1)						
10		R22-1(0-1)-030216		3-2-16	1445	2	S	X	X	X	X	T							

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>	<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>	<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>	<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>	<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

23300-23400 blocks of W. IL 113 (ISGS Site No. 2948-21)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261130987 Longitude: -88.172704601

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.



Project Name: FAU 327: Illinois Route 113Latitude: 41.261130987 Longitude: -88.172704601Uncontaminated 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 WL21-1 AND WL21-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-21. SEE FIGURES 4-3/3-4 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: 500-108387-1.  
ALSO SEE FIGURES 4-3/4-4 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:



5 May 2016

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-21**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	WL21-1(0-1)-030416	WL21-2(0-1)-030416	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	
Location ID	WL21-1	WL21-2	
Depth	0 - 1	0 - 1	
Location Code	2948-21	2948-21	
<b>Parameter</b>			
Laboratory pH	8.77	7.55	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	ND	9.4 J	900 / 1100 / 1800
Benzo(b)fluoranthene	ND	12 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.3 J	1.8 J	11.3 / 13
Barium, Total	7 J	13 J	1500
Beryllium, Total	0.098 J	0.16 J	22
Cadmium, Total	0.047 J	0.084 J	5.2
Calcium, Total	580 J	1700 J	---
Chromium, Total	4.1 J	6.2 J	21
Iron, Total	3400 J	5300 J	15000 / 15900
Lead, Total	2.3 J	9.9 J	107
Manganese, Total	35 J	38 J	630 / 636
Mercury, Total	0.01 J	0.012 J	0.89
Nickel, Total	3.7	4	100
Potassium, Total	160 J	190 J	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	10	16	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.08 J	0.12 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.089	0.2	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	ND	0.1 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.011 J	0.029	0.1
Iron, SPLP	9.1 J	28 J	5
Lead, SPLP	0.011	0.04	0.0075
Manganese, SPLP	0.14	0.13	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	0.019 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.061 J	0.11 J	5

**Summary Table of ISGS Site No. 2948-21**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
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- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-1(0-1)-030416**

**Lab Sample ID: 500-108387-18**

**Date Collected: 03/04/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 14:44	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/05/16 14:44	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 14:44	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 14:44	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/05/16 14:44	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 14:44	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 14:44	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/05/16 14:44	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/05/16 14:44	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 14:44	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 14:44	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 14:44	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 14:44	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 14:44	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/05/16 14:44	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 14:44	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/05/16 14:44	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 14:44	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 14:44	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 14:44	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 14:44	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 14:44	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 14:44	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 14:44	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 14:44	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/05/16 14:44	1
Dibromofluoromethane	109		75 - 120		03/05/16 14:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/05/16 14:44	1
Toluene-d8 (Surr)	105		75 - 122		03/05/16 14:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-1(0-1)-030416**

**Lab Sample ID: 500-108387-18**

**Date Collected: 03/04/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**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	☼	03/07/16 07:05	03/08/16 02:32	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Bromophenyl phenyl ether	<180 *		180	48	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Hexachlorobenzene	<73 *		73	8.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-1(0-1)-030416**

**Lab Sample ID: 500-108387-18**

**Date Collected: 03/04/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		35 - 137	03/07/16 07:05	03/08/16 02:32	1
2-Fluorobiphenyl	93		25 - 119	03/07/16 07:05	03/08/16 02:32	1
2-Fluorophenol	80		25 - 110	03/07/16 07:05	03/08/16 02:32	1
Nitrobenzene-d5	85		25 - 115	03/07/16 07:05	03/08/16 02:32	1
Phenol-d5	68		31 - 110	03/07/16 07:05	03/08/16 02:32	1
Terphenyl-d14	111		36 - 134	03/07/16 07:05	03/08/16 02:32	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:33	1
<b>Barium</b>	<b>0.080</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 23:16	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 23:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
<b>Copper</b>	<b>0.014</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 23:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:33	1
<b>Manganese</b>	<b>0.089</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 23:16	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:16	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 23:16	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		03/08/16 14:49	03/09/16 16:15	1
Barium	<0.50		0.50	0.050	mg/L		03/08/16 14:49	03/09/16 16:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 16:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 16:15	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:15	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:15	1
<b>Iron</b>	<b>9.1</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 16:15	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 16:15	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 16:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-1(0-1)-030416**

**Lab Sample ID: 500-108387-18**

Date Collected: 03/04/16 12:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 87.9

**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		03/08/16 14:49	03/09/16 16:15	1
<b>Zinc</b>	<b>0.061</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 16:15	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	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Arsenic</b>	<b>1.3</b>		0.53	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Barium</b>	<b>7.0</b>		0.53	0.098	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Beryllium</b>	<b>0.098</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Cadmium</b>	<b>0.047</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Calcium</b>	<b>580</b>		11	3.4	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Chromium</b>	<b>4.1</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Cobalt</b>	<b>1.5</b>		0.27	0.060	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Copper</b>	<b>2.1</b>		0.53	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Iron</b>	<b>3400</b>		11	4.1	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Lead</b>	<b>2.3</b>		0.27	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Magnesium</b>	<b>550</b>		5.3	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Manganese</b>	<b>35</b>		0.53	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Nickel</b>	<b>3.7</b>		0.53	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Potassium</b>	<b>160</b>		27	4.4	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Sodium</b>	<b>120</b>		53	7.1	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Vanadium</b>	<b>6.7</b>		0.27	0.078	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	1
<b>Zinc</b>	<b>10</b>		1.1	0.34	mg/Kg	☼	03/05/16 12:37	03/07/16 16:04	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		03/07/16 15:00	03/10/16 17:36	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>10</b>	<b>J</b>	18	9.4	ug/Kg	☼	03/07/16 19:00	03/10/16 19:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.77</b>		0.200	0.200	SU			03/07/16 17:35	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-2(0-1)-030416**

**Lab Sample ID: 500-108387-19**

**Date Collected: 03/04/16 13:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 15:10	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 15:10	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/05/16 15:10	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:10	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:10	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/05/16 15:10	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 15:10	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 15:10	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/05/16 15:10	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/05/16 15:10	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:10	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 15:10	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:10	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 15:10	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 15:10	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:10	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 15:10	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:10	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 15:10	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:10	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 15:10	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 15:10	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:10	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:10	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/05/16 15:10	1
Dibromofluoromethane	107		75 - 120		03/05/16 15:10	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 15:10	1
Toluene-d8 (Surr)	109		75 - 122		03/05/16 15:10	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-2(0-1)-030416**

**Lab Sample ID: 500-108387-19**

**Date Collected: 03/04/16 13:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Bromophenyl phenyl ether	<190 *		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Benzo[a]anthracene</b>	<b>9.4 J</b>		38	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		38	8.3	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Chrysene</b>	<b>12 J</b>		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Fluoranthene</b>	<b>19 J</b>		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Hexachlorobenzene	<77 *		77	8.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-2(0-1)-030416**

**Lab Sample ID: 500-108387-19**

**Date Collected: 03/04/16 13:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Phenanthrene</b>	<b>26</b>	<b>J</b>	38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1
<b>Pyrene</b>	<b>18</b>	<b>J</b>	38	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		35 - 137	03/07/16 07:05	03/08/16 04:47	1
2-Fluorobiphenyl	90		25 - 119	03/07/16 07:05	03/08/16 04:47	1
2-Fluorophenol	80		25 - 110	03/07/16 07:05	03/08/16 04:47	1
Nitrobenzene-d5	84		25 - 115	03/07/16 07:05	03/08/16 04:47	1
Phenol-d5	70		31 - 110	03/07/16 07:05	03/08/16 04:47	1
Terphenyl-d14	119		36 - 134	03/07/16 07:05	03/08/16 04:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:40	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 23:23	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 23:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
<b>Copper</b>	<b>0.012</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 23:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:40	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 23:23	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:23	1
<b>Zinc</b>	<b>0.10</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 23:23	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		03/08/16 14:49	03/09/16 16:22	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 16:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Chromium</b>	<b>0.029</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Iron</b>	<b>28</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:22	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 16:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL21-2(0-1)-030416**

**Lab Sample ID: 500-108387-19**

**Date Collected: 03/04/16 13:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.6**

**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		03/08/16 14:49	03/09/16 16:22	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 16:22	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	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Arsenic</b>	<b>1.8</b>		0.56	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Barium</b>	<b>13</b>		0.56	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Cadmium</b>	<b>0.084</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Calcium</b>	<b>1700</b>		11	3.6	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Chromium</b>	<b>6.2</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Cobalt</b>	<b>1.6</b>		0.28	0.063	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Copper</b>	<b>2.3</b>		0.56	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Iron</b>	<b>5300</b>		11	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Lead</b>	<b>9.9</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Magnesium</b>	<b>1200</b>		5.6	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Manganese</b>	<b>38</b>		0.56	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Nickel</b>	<b>4.0</b>		0.56	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Potassium</b>	<b>190</b>		28	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Sodium</b>	<b>410</b>		56	7.3	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Vanadium</b>	<b>11</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	1
<b>Zinc</b>	<b>16</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 16:08	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		03/07/16 15:00	03/10/16 17:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	17	8.8	ug/Kg	☼	03/07/16 19:00	03/10/16 19:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.55</b>		0.200	0.200	SU			03/07/16 17:38	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#


## Chain of Custody Record

Lab Job #: 500-108387

Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHU</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHU</u>	Date <u>03/04/16</u>	Time <u>1650</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Hand Delivered _____

<b>Matrix Key</b> 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:
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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. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative														Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name				Parameter															
<u>IDOT-040</u>																			
Project Location/State				Lab Project #															
<u>Broadwood &amp; Carter Park/IL</u>																			
Sampler				Lab PM															
<u>T. Walls</u>				<u>D. Wright</u>															
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TEL/SP/MS	Metals	PH					Comments	
		Date	Time	Date	Time														
11		<u>R25-1(0-1)-030416</u>		<u>3-4-16</u>	<u>1120</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
12		<u>R25-1(0-1)-030416D</u>			<u>1120</u>														
13		<u>SR-8(0-1)-030416</u>			<u>1135</u>														
14		<u>AL23-1(0-1)-030416</u>			<u>1145</u>														
15		<u>AL23-2(0-1)-030416</u>			<u>1200</u>														
16		<u>AL23-3(0-1)-030416</u>			<u>1210</u>														
17		<u>AL23-4(0-1)-030416</u>			<u>1220</u>														
18		<u>WL21-1(0-1)-030416</u>			<u>1255</u>														
19		<u>WL21-2(0-1)-030416</u>			<u>1305</u>														
20		<u>AL19-2(0-1)-030416</u>		<u>3-4-16</u>	<u>1310</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z...</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>TOR</u>	Company <u>TA-CHE</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>T...</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>Neil Jones</u>	Company <u>TA-CHE</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHE  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

23215-23427 W. IL 113 (ISGS Site No. 2948-22)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261018112 Longitude: -88.172888296  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261018112 Longitude: -88.172888296

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 R22-1 THROUGH R22-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-22. SEE FIGURE 3-4 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: 500-108245-1.  
ALSO SEE FIGURE 4-4 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:



5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-22**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R22-1(0-1)-030216	R22-2(0-1)-030216	R22-3(0-1)-030216	R22-3(0-1)-030216D	Soil Reference Concentrations
Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	
Location ID	R22-1	R22-2	R22-3	R22-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-22	2948-22	2948-22	2948-22	
<b>Parameter</b>					
Laboratory pH	7.96	6.93	8.28	8.24	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>				
<b>SVOCs (ug/kg)</b>					
Benzo(a)anthracene	14 J	ND	5.3 J	7.9 J	900 / 1100 / 1800
Benzo(a)pyrene	13 J	ND	ND	7.8 J	90 / 1300 / 2100
Benzo(b)fluoranthene	21 J	ND	13 J	15 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	1.5 J	1.2 J	4.7 J	2.5 J	11.3 / 13
Barium, Total	15	9.5	49 J	20 J	1500
Beryllium, Total	0.16 J	0.098 J	0.23	0.21	22
Cadmium, Total	0.058 J	0.08 J	0.094 J	0.079 J	5.2
Calcium, Total	4400 J	1100 J	3800 J	8400 J	---
Chromium, Total	6.4 B	4.4 B	7.3 B	6.3 B	21
Iron, Total	4900 J	4100 J	6000 J	6200 J	15000 / 15900
Lead, Total	7 J	4.8 J	5.6 J	5.4 J	107
Manganese, Total	32 J	54 J	260 J	76 J	630 / 636
Mercury, Total	ND	ND	ND	ND	0.89
Nickel, Total	4 B	4.1 B	4.1 B	3.7 B	100
Potassium, Total	200	150	190	180	---
Selenium, Total	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	4.4
Zinc, Total	14	14	17	17	5100
<b>TCLP Metals (mg/l)</b>					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.18 J	0.18 J	0.28 J	0.29 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.33	0.12	0.53	0.74	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	0.7 J+	ND	ND	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	ND	ND	0.016 J	0.021 J	0.05
Barium, SPLP	0.15 J	ND	0.17 J	0.2 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.044	ND	0.053	0.069	0.1
Iron, SPLP	33 J-	4.9 J-	42 J-	55 J-	5
Lead, SPLP	0.034	0.013	0.023	0.029	0.0075
Manganese, SPLP	0.13	0.14	0.19	0.21	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.024 J	ND	0.025	0.034	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-22**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 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.*

- 1
- 2
- 3
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-1(0-1)-030216**

**Lab Sample ID: 500-108245-10**

**Date Collected: 03/02/16 14:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/03/16 17:50	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 17:50	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/03/16 17:50	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 17:50	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 17:50	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/03/16 17:50	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 17:50	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 17:50	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/03/16 17:50	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/03/16 17:50	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 17:50	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/03/16 17:50	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 17:50	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/03/16 17:50	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/03/16 17:50	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 17:50	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 17:50	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/03/16 17:50	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 17:50	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 17:50	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 17:50	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 17:50	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 17:50	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/03/16 17:50	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 17:50	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/03/16 17:50	1
Dibromofluoromethane	101		75 - 120		03/03/16 17:50	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/03/16 17:50	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 17:50	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-1(0-1)-030216**

**Lab Sample ID: 500-108245-10**

**Date Collected: 03/02/16 14:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	84	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Benzo[a]anthracene</b>	<b>14</b>	<b>J</b>	36	4.9	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Benzo[a]pyrene</b>	<b>13</b>	<b>J*</b>	36	7.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Benzo[b]fluoranthene</b>	<b>21</b>	<b>J*</b>	36	7.9	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Benzo[k]fluoranthene	<36	*	36	11	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>69</b>	<b>J</b>	180	67	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Carbazole	<180		180	92	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Chrysene</b>	<b>16</b>	<b>J</b>	36	10	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Fluoranthene</b>	<b>28</b>	<b>J</b>	36	6.8	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-1(0-1)-030216**

**Lab Sample ID: 500-108245-10**

**Date Collected: 03/02/16 14:45**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 87.3**

**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	<36	*	36	9.5	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Isophorone	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Phenanthrene</b>	<b>25</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
Phenol	<180		180	81	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1
<b>Pyrene</b>	<b>34</b>	<b>J</b>	36	7.3	ug/Kg	☼	03/06/16 10:59	03/08/16 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137	03/06/16 10:59	03/08/16 18:16	1
2-Fluorobiphenyl	72		25 - 119	03/06/16 10:59	03/08/16 18:16	1
2-Fluorophenol	80		25 - 110	03/06/16 10:59	03/08/16 18:16	1
Nitrobenzene-d5	61		25 - 115	03/06/16 10:59	03/08/16 18:16	1
Phenol-d5	59		31 - 110	03/06/16 10:59	03/08/16 18:16	1
Terphenyl-d14	103		36 - 134	03/06/16 10:59	03/08/16 18:16	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 02:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 02:03	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 02:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 02:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 02:03	1
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 02:03	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:03	1
<b>Zinc</b>	<b>0.31</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 02:03	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		03/06/16 11:14	03/08/16 19:26	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:26	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Chromium</b>	<b>0.044</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Iron</b>	<b>33</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Lead</b>	<b>0.034</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:26	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:26	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-1(0-1)-030216**

**Lab Sample ID: 500-108245-10**

Date Collected: 03/02/16 14:45

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 87.3

**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		03/06/16 11:14	03/08/16 19:26	1
<b>Zinc</b>	<b>0.63</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Arsenic</b>	<b>1.5</b>		0.49	0.23	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Barium</b>	<b>15</b>		0.49	0.090	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.20	0.043	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Cadmium</b>	<b>0.058</b>	<b>J</b>	0.098	0.028	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Calcium</b>	<b>4400</b>		9.8	3.2	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Chromium</b>	<b>6.4</b>	<b>B</b>	0.49	0.085	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Cobalt</b>	<b>1.7</b>		0.25	0.056	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Copper</b>	<b>1.7</b>		0.49	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Iron</b>	<b>4900</b>		9.7	3.8	mg/Kg	☼	03/07/16 09:19	03/07/16 19:21	1
<b>Lead</b>	<b>7.0</b>		0.25	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Magnesium</b>	<b>2700</b>		4.9	2.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Manganese</b>	<b>32</b>		0.49	0.097	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Nickel</b>	<b>4.0</b>	<b>B</b>	0.49	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Potassium</b>	<b>200</b>		25	4.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Sodium</b>	<b>230</b>		49	6.5	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Vanadium</b>	<b>11</b>		0.25	0.072	mg/Kg	☼	03/04/16 08:56	03/04/16 21:30	1
<b>Zinc</b>	<b>14</b>		0.97	0.31	mg/Kg	☼	03/07/16 09:19	03/07/16 19:21	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:32	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>34</b>	<b>B</b>	17	9.1	ug/Kg	☼	03/03/16 16:15	03/04/16 12:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.96</b>		0.200	0.200	SU			03/03/16 23:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-2(0-1)-030216**

**Lab Sample ID: 500-108245-11**

**Date Collected: 03/02/16 14:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/03/16 18:15	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 18:15	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/03/16 18:15	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 18:15	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 18:15	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 18:15	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/03/16 18:15	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 18:15	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/03/16 18:15	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/03/16 18:15	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 18:15	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 18:15	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 18:15	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 18:15	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/03/16 18:15	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/03/16 18:15	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/03/16 18:15	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/03/16 18:15	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/03/16 18:15	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 18:15	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 18:15	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 18:15	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 18:15	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 18:15	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/03/16 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122		03/03/16 18:15	1
Dibromofluoromethane	103		75 - 120		03/03/16 18:15	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/03/16 18:15	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 18:15	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	☼	03/06/16 10:59	03/08/16 18:45	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-2(0-1)-030216**

**Lab Sample ID: 500-108245-11**

**Date Collected: 03/02/16 14:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Benzo[a]pyrene	<35 *		35	6.8	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Benzo[b]fluoranthene	<35 *		35	7.5	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Benzo[g,h,i]perylene	<35 *		35	11	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Benzo[k]fluoranthene	<35 *		35	10	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Butyl benzyl phthalate	<180		180	66	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Carbazole	<180		180	87	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Chrysene	<35		35	9.5	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Dibenz(a,h)anthracene	<35 *		35	6.7	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
<b>Fluoranthene</b>	<b>6.9 J</b>		35	6.5	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-2(0-1)-030216**

**Lab Sample ID: 500-108245-11**

**Date Collected: 03/02/16 14:55**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 91.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.0	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Isophorone	<180		180	39	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	35	4.9	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Phenol	<180		180	78	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1
Pyrene	<35		35	6.9	ug/Kg	☼	03/06/16 10:59	03/08/16 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137	03/06/16 10:59	03/08/16 18:45	1
2-Fluorobiphenyl	80		25 - 119	03/06/16 10:59	03/08/16 18:45	1
2-Fluorophenol	89		25 - 110	03/06/16 10:59	03/08/16 18:45	1
Nitrobenzene-d5	68		25 - 115	03/06/16 10:59	03/08/16 18:45	1
Phenol-d5	72		31 - 110	03/06/16 10:59	03/08/16 18:45	1
Terphenyl-d14	114		36 - 134	03/06/16 10:59	03/08/16 18:45	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 02:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 02:10	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 02:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 02:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 02:10	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 02:10	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:10	1
<b>Zinc</b>	<b>0.70</b>	<b>B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 02:10	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		03/06/16 11:14	03/08/16 19:49	1
Barium	<0.50		0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:49	1
Copper	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:49	1
<b>Iron</b>	<b>4.9</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:49	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:49	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-2(0-1)-030216**

**Lab Sample ID: 500-108245-11**

Date Collected: 03/02/16 14:55

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.5

**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		03/06/16 11:14	03/08/16 19:49	1
<b>Zinc</b>	<b>0.53</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:49	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Arsenic</b>	<b>1.2</b>		0.48	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Barium</b>	<b>9.5</b>		0.48	0.089	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Beryllium</b>	<b>0.098</b>	<b>J</b>	0.19	0.042	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Cadmium</b>	<b>0.080</b>	<b>J</b>	0.097	0.028	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Calcium</b>	<b>1100</b>		9.7	3.1	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Chromium</b>	<b>4.4</b>	<b>B</b>	0.52	0.089	mg/Kg	☼	03/07/16 09:19	03/07/16 19:26	1
<b>Cobalt</b>	<b>1.7</b>		0.24	0.055	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Copper</b>	<b>2.6</b>		0.48	0.10	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Iron</b>	<b>4100</b>		10	4.0	mg/Kg	☼	03/07/16 09:19	03/07/16 19:26	1
<b>Lead</b>	<b>4.8</b>		0.24	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Magnesium</b>	<b>790</b>		4.8	2.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Manganese</b>	<b>54</b>		0.48	0.096	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Nickel</b>	<b>4.1</b>	<b>B</b>	0.48	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Potassium</b>	<b>150</b>		24	3.9	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Sodium</b>	<b>160</b>		48	6.4	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Vanadium</b>	<b>7.7</b>		0.24	0.071	mg/Kg	☼	03/04/16 08:56	03/04/16 21:35	1
<b>Zinc</b>	<b>14</b>		1.0	0.33	mg/Kg	☼	03/07/16 09:19	03/07/16 19:26	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:34	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 18:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.5	ug/Kg	☼	03/03/16 16:15	03/04/16 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.93</b>		0.200	0.200	SU			03/03/16 23:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216**

**Lab Sample ID: 500-108245-12**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/03/16 18:41	1
Benzene	<6.1		6.1	1.3	ug/Kg	☼		03/03/16 18:41	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/03/16 18:41	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/03/16 18:41	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/03/16 18:41	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/03/16 18:41	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
Chloroethane	<6.1		6.1	2.5	ug/Kg	☼		03/03/16 18:41	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/03/16 18:41	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/03/16 18:41	1
1,1-Dichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		03/03/16 18:41	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/03/16 18:41	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/03/16 18:41	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/03/16 18:41	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/03/16 18:41	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/03/16 18:41	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/03/16 18:41	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/03/16 18:41	1
methyl isobutyl ketone	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.96	ug/Kg	☼		03/03/16 18:41	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/03/16 18:41	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/03/16 18:41	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/03/16 18:41	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/03/16 18:41	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/03/16 18:41	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/03/16 18:41	1
Vinyl chloride	<6.1		6.1	1.4	ug/Kg	☼		03/03/16 18:41	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122		03/03/16 18:41	1
Dibromofluoromethane	101		75 - 120		03/03/16 18:41	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/03/16 18:41	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 18:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216**

**Lab Sample ID: 500-108245-12**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Methylphenol	<200		200	62	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
<b>Benzo[a]anthracene</b>	<b>5.3 J</b>		39	5.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Benzo[a]pyrene	<39 *		39	7.5	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
<b>Benzo[b]fluoranthene</b>	<b>13 J *</b>		39	8.4	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Benzo[g,h,i]perylene	<39 *		39	13	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Benzo[k]fluoranthene	<39 *		39	11	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Carbazole	<200		200	97	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Chrysene	<39		39	11	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Dibenz(a,h)anthracene	<39 *		39	7.5	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
<b>Fluoranthene</b>	<b>11 J</b>		39	7.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216**

**Lab Sample ID: 500-108245-12**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Isophorone	<200		200	44	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
<b>Phenanthrene</b>	<b>10</b>	<b>J</b>	39	5.4	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Phenol	<200		200	86	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
<b>Pyrene</b>	<b>12</b>	<b>J</b>	39	7.7	ug/Kg	☼	03/06/16 10:59	03/08/16 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137				03/06/16 10:59	03/08/16 19:15	1
2-Fluorobiphenyl	80		25 - 119				03/06/16 10:59	03/08/16 19:15	1
2-Fluorophenol	92		25 - 110				03/06/16 10:59	03/08/16 19:15	1
Nitrobenzene-d5	70		25 - 115				03/06/16 10:59	03/08/16 19:15	1
Phenol-d5	80		31 - 110				03/06/16 10:59	03/08/16 19:15	1
Terphenyl-d14	118		36 - 134				03/06/16 10:59	03/08/16 19:15	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 02:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 02:16	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 02:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 02:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 02:16	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 02:16	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:16	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 02:16	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 19:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 19:55	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Chromium</b>	<b>0.053</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Copper</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Iron</b>	<b>42</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 19:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 19:55	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216**

**Lab Sample ID: 500-108245-12**

Date Collected: 03/02/16 15:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 82.5

**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		03/06/16 11:14	03/08/16 19:55	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 19:55	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	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Arsenic</b>	<b>4.7</b>		0.58	0.27	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Barium</b>	<b>49</b>		0.58	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Beryllium</b>	<b>0.23</b>		0.23	0.050	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Cadmium</b>	<b>0.094</b>	<b>J</b>	0.12	0.033	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Calcium</b>	<b>3800</b>		12	3.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Chromium</b>	<b>7.3</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Cobalt</b>	<b>2.7</b>		0.29	0.065	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Copper</b>	<b>3.6</b>		0.58	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Iron</b>	<b>6000</b>		11	4.4	mg/Kg	☼	03/07/16 09:19	03/07/16 19:30	1
<b>Lead</b>	<b>5.6</b>		0.29	0.14	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Magnesium</b>	<b>2200</b>		5.8	2.3	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Manganese</b>	<b>260</b>		0.58	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Nickel</b>	<b>4.1</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Potassium</b>	<b>190</b>		29	4.7	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Sodium</b>	<b>320</b>		58	7.6	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Vanadium</b>	<b>15</b>		0.29	0.084	mg/Kg	☼	03/04/16 08:56	03/04/16 21:39	1
<b>Zinc</b>	<b>17</b>		1.1	0.36	mg/Kg	☼	03/07/16 09:19	03/07/16 19:30	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/08/16 14:36	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	^	0.20	0.20	ug/L		03/05/16 16:15	03/09/16 12:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.28</b>		0.200	0.200	SU			03/03/16 23:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216D**

**Lab Sample ID: 500-108245-13**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 22:11	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 22:11	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/03/16 22:11	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 22:11	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 22:11	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 22:11	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/03/16 22:11	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/03/16 22:11	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/03/16 22:11	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 22:11	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 22:11	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 22:11	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 22:11	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/03/16 22:11	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/03/16 22:11	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 22:11	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/03/16 22:11	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 22:11	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 22:11	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 22:11	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 22:11	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/03/16 22:11	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 22:11	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 22:11	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 22:11	1
Dibromofluoromethane	100		75 - 120		03/03/16 22:11	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		03/03/16 22:11	1
Toluene-d8 (Surr)	109		75 - 122		03/03/16 22:11	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	☼	03/06/16 10:59	03/08/16 19:43	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216D**

**Lab Sample ID: 500-108245-13**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Benzo[a]anthracene</b>	<b>7.9 J</b>		37	5.0	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Benzo[a]pyrene</b>	<b>7.8 J*</b>		37	7.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Benzo[b]fluoranthene</b>	<b>15 J*</b>		37	8.0	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Carbazole	<190		190	93	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Chrysene	<37		37	10	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Fluoranthene</b>	<b>16 J</b>		37	6.9	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216D**

**Lab Sample ID: 500-108245-13**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Isophorone	<190		190	42	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Phenanthrene</b>	<b>14</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Phenol	<190		190	82	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
<b>Pyrene</b>	<b>18</b>	<b>J</b>	37	7.4	ug/Kg	☼	03/06/16 10:59	03/08/16 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	36		35 - 137				03/06/16 10:59	03/08/16 19:43	1
2-Fluorobiphenyl	74		25 - 119				03/06/16 10:59	03/08/16 19:43	1
2-Fluorophenol	81		25 - 110				03/06/16 10:59	03/08/16 19:43	1
Nitrobenzene-d5	62		25 - 115				03/06/16 10:59	03/08/16 19:43	1
Phenol-d5	48		31 - 110				03/06/16 10:59	03/08/16 19:43	1
Terphenyl-d14	108		36 - 134				03/06/16 10:59	03/08/16 19:43	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 02:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 02:23	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 02:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 02:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 02:23	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 02:23	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:23	1
<b>Zinc</b>	<b>0.28</b>	<b>J B F1</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 02:23	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		03/06/16 11:14	03/08/16 20:02	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 20:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 20:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Chromium</b>	<b>0.069</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Copper</b>	<b>0.033</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Iron</b>	<b>55</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Lead</b>	<b>0.029</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:02	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 20:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: R22-3(0-1)-030216D**

**Lab Sample ID: 500-108245-13**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 84.4**

**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		03/06/16 11:14	03/08/16 20:02	1
<b>Zinc</b>	<b>0.52</b>	<b>B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 20:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Arsenic</b>	<b>2.5</b>		0.49	0.22	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Barium</b>	<b>20</b>		0.49	0.089	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Beryllium</b>	<b>0.21</b>		0.19	0.042	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Cadmium</b>	<b>0.079</b>	<b>J</b>	0.097	0.028	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Calcium</b>	<b>8400</b>		9.7	3.1	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Chromium</b>	<b>6.3</b>	<b>B</b>	0.49	0.083	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Cobalt</b>	<b>1.5</b>		0.24	0.055	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Copper</b>	<b>3.3</b>		0.49	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Iron</b>	<b>6200</b>		11	4.1	mg/Kg	☼	03/07/16 09:19	03/07/16 19:34	1
<b>Lead</b>	<b>5.4</b>		0.24	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Magnesium</b>	<b>4200</b>		4.9	2.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Manganese</b>	<b>76</b>		0.49	0.096	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Nickel</b>	<b>3.7</b>	<b>B</b>	0.49	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Potassium</b>	<b>180</b>		24	4.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Sodium</b>	<b>320</b>		49	6.4	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Vanadium</b>	<b>11</b>		0.24	0.071	mg/Kg	☼	03/04/16 08:56	03/04/16 21:43	1
<b>Zinc</b>	<b>17</b>		1.1	0.34	mg/Kg	☼	03/07/16 09:19	03/07/16 19:34	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		03/07/16 15:00	03/08/16 14:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 19:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/03/16 16:15	03/04/16 13:01	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			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
*	ISTD response or retention time outside acceptable 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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108245 COC

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments							
1		F12-1(0-1)-030216	3-2-16	1305	2	S	X	X	X	X	↑								
2		<del>F12-1(0-1)-030216</del> F14-1(0-1)-030216D		<del>1305</del> 1320								F12-1(0-1)							
3		R14-1(0-1)-030216		1320															
4		WL15-1(0-1)-030216		1330															
5		R14-2(0-1)-030216		1340															
6		R17-1(0-1)-030216		1350															
7		F18-1(0-1)-030216		1400															
8		R20-1(0-1)-030216		1410															
9		<del>R22-1(0-1)-030216</del> AL19-1		1425								AL19-1(0-1)							
10		R22-1(0-1)-030216	3-2-16	1445	2	S	X	X	X	X	↑								

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22900-23200 blocks of W. IL 113 (ISGS Site No. 2948-23)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261216048 Longitude: -88.168074854  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261216048 Longitude: -88.168074854

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 AL23-1 THROUGH AL23-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-23. SEE FIGURE 3-4 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: 500-108387-1.  
ALSO SEE FIGURE 4-4 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:

5 May 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-23**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AL23-1(0-1)-030416	AL23-2(0-1)-030416	AL23-3(0-1)-030416	AL23-4(0-1)-030416	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	AL23-1	AL23-2	AL23-3	AL23-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-23	2948-23	2948-23	2948-23	
<b>Parameter</b>					
Laboratory pH	8.69	8.56	8.91	8.48	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected				
<b>SVOCs (ug/kg)</b>					
Benzo(a)anthracene	8.1 J	ND	14 J	7.2 J	900 / 1100 / 1800
Benzo(b)fluoranthene	9.3 J	13 J	ND	ND	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	1.9 J	3.4 J	2.8 J	13 J	11.3 / 13
Barium, Total	28 J	21 J	24 J	24 J	1500
Beryllium, Total	0.34	0.27	0.26	0.28	22
Cadmium, Total	0.082 J	0.12	0.092 J	0.098 J	5.2
Calcium, Total	3400 J	8700 J	2900 J	10000 J	---
Chromium, Total	7.4 J	5.9 J	6.4 J	7.2 J	21
Iron, Total	5200 J	8700 J	5900 J	18000 J	15000 / 15900
Lead, Total	9.6 J	15 J	15 J	11 J	107
Manganese, Total	96 J	94 J	63 J	130 J	630 / 636
Mercury, Total	0.026 J	0.013 J	0.023 J	0.018 J	0.89
Nickel, Total	3.9	3.3	3.7	4.5	100
Potassium, Total	180 J	170 J	170 J	170 J	---
Selenium, Total	0.46 J	0.51 J	0.33 J	0.54 J	1.3
Silver, Total	ND	ND	ND	ND	4.4
Zinc, Total	17	16	15	19	5100
<b>TCLP Metals (mg/l)</b>					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.19 J	0.17 J	0.14 J	0.2 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	0.25 J	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.39	0.5	0.32	0.63	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	ND	ND	0.012 J	0.069	0.05
Barium, SPLP	0.16 J	0.086 J	0.18 J	0.17 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.026	0.016 J	0.043	0.045	0.1
Iron, SPLP	18 J	13 J	42 J	120 J	5
Lead, SPLP	0.025	0.048	0.094	0.058	0.0075
Manganese, SPLP	0.13	0.22	0.32	0.5	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.013 J	0.011 J	0.026	0.026	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.16 J	0.2 J	0.58	0.22 J	5

**Summary Table of ISGS Site No. 2948-23**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-1(0-1)-030416**

**Lab Sample ID: 500-108387-14**

**Date Collected: 03/04/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 12:59	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 12:59	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/05/16 12:59	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 12:59	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 12:59	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 12:59	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 12:59	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 12:59	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/05/16 12:59	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 12:59	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 12:59	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 12:59	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 12:59	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 12:59	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/05/16 12:59	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 12:59	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/05/16 12:59	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 12:59	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 12:59	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 12:59	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 12:59	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 12:59	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 12:59	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 12:59	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/05/16 12:59	1
Dibromofluoromethane	105		75 - 120		03/05/16 12:59	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/05/16 12:59	1
Toluene-d8 (Surr)	110		75 - 122		03/05/16 12:59	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	42	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-1(0-1)-030416**

**Lab Sample ID: 500-108387-14**

**Date Collected: 03/04/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Bromophenyl phenyl ether	<190 *		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Anthracene	<38		38	6.5	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
<b>Benzo[a]anthracene</b>	<b>8.1 J</b>		38	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
<b>Benzo[b]fluoranthene</b>	<b>9.3 J</b>		38	8.3	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Carbazole	<190		190	97	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Chrysene	<38		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
<b>Fluoranthene</b>	<b>11 J</b>		38	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Hexachlorobenzene	<78 *		78	9.0	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-1(0-1)-030416**

**Lab Sample ID: 500-108387-14**

**Date Collected: 03/04/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
<b>Phenanthrene</b>	<b>13</b>	<b>J</b>	38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Phenol	<190		190	86	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
<b>Pyrene</b>	<b>13</b>	<b>J</b>	38	7.7	ug/Kg	☼	03/07/16 07:05	03/08/16 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		35 - 137				03/07/16 07:05	03/08/16 04:20	1
2-Fluorobiphenyl	90		25 - 119				03/07/16 07:05	03/08/16 04:20	1
2-Fluorophenol	83		25 - 110				03/07/16 07:05	03/08/16 04:20	1
Nitrobenzene-d5	85		25 - 115				03/07/16 07:05	03/08/16 04:20	1
Phenol-d5	64		31 - 110				03/07/16 07:05	03/08/16 04:20	1
Terphenyl-d14	119		36 - 134				03/07/16 07:05	03/08/16 04:20	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:06	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:49	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		03/08/16 08:27	03/09/16 22:06	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:06	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:49	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:49	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:49	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		03/08/16 14:49	03/09/16 15:32	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Chromium</b>	<b>0.026</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Iron</b>	<b>18</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Lead</b>	<b>0.025</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:32	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-1(0-1)-030416**

**Lab Sample ID: 500-108387-14**

**Date Collected: 03/04/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.2**

**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		03/08/16 14:49	03/09/16 15:32	1
<b>Zinc</b>	<b>0.16</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:32	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	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Arsenic</b>	<b>1.9</b>		0.55	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Barium</b>	<b>28</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Beryllium</b>	<b>0.34</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Cadmium</b>	<b>0.082</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Calcium</b>	<b>3400</b>		11	3.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Chromium</b>	<b>7.4</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Cobalt</b>	<b>1.7</b>		0.28	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Copper</b>	<b>2.4</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Iron</b>	<b>5200</b>		11	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Lead</b>	<b>9.6</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Magnesium</b>	<b>1600</b>		5.5	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Manganese</b>	<b>96</b>		0.55	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Nickel</b>	<b>3.9</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Potassium</b>	<b>180</b>		28	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Sodium</b>	<b>550</b>		55	7.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Vanadium</b>	<b>11</b>		0.28	0.080	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	1
<b>Zinc</b>	<b>17</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 15:45	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		03/07/16 15:00	03/10/16 17:24	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>26</b>		19	9.9	ug/Kg	☼	03/07/16 19:00	03/10/16 19:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.69</b>		0.200	0.200	SU			03/07/16 17:17	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-2(0-1)-030416**

**Lab Sample ID: 500-108387-15**

**Date Collected: 03/04/16 12:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 13:26	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:26	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/05/16 13:26	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:26	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 13:26	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 13:26	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:26	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 13:26	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 13:26	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:26	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:26	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 13:26	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:26	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/05/16 13:26	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 13:26	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:26	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 13:26	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:26	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 13:26	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/05/16 13:26	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 13:26	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:26	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/05/16 13:26	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:26	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/05/16 13:26	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:26	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 13:26	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 13:26	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 13:26	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:26	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/05/16 13:26	1
Dibromofluoromethane	107		75 - 120		03/05/16 13:26	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/05/16 13:26	1
Toluene-d8 (Surr)	108		75 - 122		03/05/16 13:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-2(0-1)-030416**

**Lab Sample ID: 500-108387-15**

**Date Collected: 03/04/16 12:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.2**

**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	87	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Benzo[a]pyrene</b>	<b>12 J *</b>		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Benzo[b]fluoranthene</b>	<b>13 J *</b>		38	8.3	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Benzo[k]fluoranthene</b>	<b>12 J *</b>		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Chrysene</b>	<b>15 J</b>		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Fluoranthene</b>	<b>18 J</b>		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Hexachlorobenzene	<77 *		77	8.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-2(0-1)-030416**

**Lab Sample ID: 500-108387-15**

**Date Collected: 03/04/16 12:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Phenanthrene</b>	<b>54</b>		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1
<b>Pyrene</b>	<b>35 J</b>		38	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	120		35 - 137	03/07/16 07:05	03/08/16 06:35	1
2-Fluorobiphenyl	101		25 - 119	03/07/16 07:05	03/08/16 06:35	1
2-Fluorophenol	86		25 - 110	03/07/16 07:05	03/08/16 06:35	1
Nitrobenzene-d5	92		25 - 115	03/07/16 07:05	03/08/16 06:35	1
Phenol-d5	82		31 - 110	03/07/16 07:05	03/08/16 06:35	1
Terphenyl-d14	190 X		36 - 134	03/07/16 07:05	03/08/16 06:35	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:13	1
<b>Barium</b>	<b>0.17 J</b>		0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
<b>Copper</b>	<b>0.016 J ^</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:13	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:56	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:56	1
<b>Zinc</b>	<b>0.12 J B</b>		0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:56	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Barium</b>	<b>0.086 J</b>		0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Chromium</b>	<b>0.016 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Copper</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Iron</b>	<b>13</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Lead</b>	<b>0.048</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
<b>Nickel</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-2(0-1)-030416**

**Lab Sample ID: 500-108387-15**

**Date Collected: 03/04/16 12:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.2**

**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		03/08/16 14:49	03/09/16 15:39	1
<b>Zinc</b>	<b>0.20</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:39	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	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Arsenic</b>	<b>3.4</b>		0.55	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Barium</b>	<b>21</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Beryllium</b>	<b>0.27</b>		0.22	0.047	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Calcium</b>	<b>8700</b>		11	3.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Chromium</b>	<b>5.9</b>	<b>B</b>	0.55	0.094	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Cobalt</b>	<b>1.5</b>		0.27	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Copper</b>	<b>3.1</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Iron</b>	<b>8700</b>		11	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Lead</b>	<b>15</b>		0.27	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Magnesium</b>	<b>5100</b>		5.5	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Manganese</b>	<b>94</b>		0.55	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Nickel</b>	<b>3.3</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Potassium</b>	<b>170</b>		27	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Selenium</b>	<b>0.51</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Sodium</b>	<b>450</b>		55	7.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Vanadium</b>	<b>13</b>		0.27	0.080	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1
<b>Zinc</b>	<b>16</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 15:50	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 17:26	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	17	8.9	ug/Kg	☼	03/07/16 19:00	03/10/16 19:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.56</b>		0.200	0.200	SU			03/07/16 17:24	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-3(0-1)-030416**

**Lab Sample ID: 500-108387-16**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 13:52	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:52	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/05/16 13:52	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 13:52	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 13:52	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:52	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 13:52	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 13:52	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 13:52	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/05/16 13:52	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 13:52	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:52	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 13:52	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:52	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 13:52	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/05/16 13:52	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 13:52	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/05/16 13:52	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 13:52	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 13:52	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 13:52	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 13:52	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 13:52	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 13:52	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 13:52	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/05/16 13:52	1
Dibromofluoromethane	106		75 - 120		03/05/16 13:52	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/05/16 13:52	1
Toluene-d8 (Surr)	108		75 - 122		03/05/16 13:52	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-3(0-1)-030416**

**Lab Sample ID: 500-108387-16**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
<b>Benzo[a]anthracene</b>	<b>14 J</b>		37	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Benzo[a]pyrene	<37 *		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Benzo[b]fluoranthene	<37 *		37	8.1	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Carbazole	<190		190	94	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
<b>Chrysene</b>	<b>18 J</b>		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Dibenz(a,h)anthracene	<37 *		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
<b>Fluoranthene</b>	<b>15 J</b>		37	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Hexachlorobenzene	<76 *		76	8.7	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-3(0-1)-030416**

**Lab Sample ID: 500-108387-16**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.7**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.7	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
<b>Phenanthrene</b>	<b>36</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1
<b>Pyrene</b>	<b>44</b>		37	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		35 - 137	03/07/16 07:05	03/08/16 08:23	1
2-Fluorobiphenyl	95		25 - 119	03/07/16 07:05	03/08/16 08:23	1
2-Fluorophenol	82		25 - 110	03/07/16 07:05	03/08/16 08:23	1
Nitrobenzene-d5	90		25 - 115	03/07/16 07:05	03/08/16 08:23	1
Phenol-d5	81		31 - 110	03/07/16 07:05	03/08/16 08:23	1
Terphenyl-d14	213	X	36 - 134	03/07/16 07:05	03/08/16 08:23	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 22:19	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 23:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 23:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
<b>Copper</b>	<b>0.019</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
<b>Iron</b>	<b>0.25</b>	<b>J</b>	0.40	0.20	mg/L		03/08/16 08:27	03/08/16 23:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:19	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 23:02	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:02	1
<b>Zinc</b>	<b>0.28</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 23:02	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	<b>J</b>	0.050	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 16:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 16:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Iron</b>	<b>42</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Lead</b>	<b>0.094</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 16:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-3(0-1)-030416**

**Lab Sample ID: 500-108387-16**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.7**

**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		03/08/16 14:49	03/09/16 16:01	1
<b>Zinc</b>	<b>0.58</b>		0.50	0.020	mg/L		03/08/16 14:49	03/09/16 16:01	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	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Arsenic</b>	<b>2.8</b>		0.56	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Barium</b>	<b>24</b>		0.56	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Beryllium</b>	<b>0.26</b>		0.23	0.049	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Cadmium</b>	<b>0.092</b>	J	0.11	0.033	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Calcium</b>	<b>2900</b>		11	3.6	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Chromium</b>	<b>6.4</b>	B	0.56	0.097	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Cobalt</b>	<b>1.7</b>		0.28	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Copper</b>	<b>2.1</b>		0.56	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Iron</b>	<b>5900</b>		11	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Magnesium</b>	<b>1500</b>		5.6	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Manganese</b>	<b>63</b>		0.56	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Nickel</b>	<b>3.7</b>		0.56	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Potassium</b>	<b>170</b>		28	4.6	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Selenium</b>	<b>0.33</b>	J	0.56	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Sodium</b>	<b>700</b>		56	7.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Vanadium</b>	<b>11</b>		0.28	0.082	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	1
<b>Zinc</b>	<b>15</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:37	03/07/16 15:54	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		03/07/16 15:00	03/10/16 17:32	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>23</b>		19	9.8	ug/Kg	☼	03/07/16 19:00	03/10/16 19:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.91</b>		0.200	0.200	SU			03/07/16 17:28	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-4(0-1)-030416**

**Lab Sample ID: 500-108387-17**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 14:18	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/05/16 14:18	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/05/16 14:18	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 14:18	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 14:18	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/05/16 14:18	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/05/16 14:18	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/05/16 14:18	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/05/16 14:18	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 14:18	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/05/16 14:18	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/05/16 14:18	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/05/16 14:18	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/05/16 14:18	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/05/16 14:18	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/05/16 14:18	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/05/16 14:18	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/05/16 14:18	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/05/16 14:18	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/05/16 14:18	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 14:18	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/05/16 14:18	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 14:18	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/05/16 14:18	1
Dibromofluoromethane	104		75 - 120		03/05/16 14:18	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/05/16 14:18	1
Toluene-d8 (Surr)	109		75 - 122		03/05/16 14:18	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	☼	03/07/16 07:05	03/08/16 08:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-4(0-1)-030416**

**Lab Sample ID: 500-108387-17**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.5**

**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	☼	03/07/16 07:05	03/08/16 08:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>2-Methylnaphthalene</b>	<b>10 J</b>		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Bromophenyl phenyl ether	<190 *		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>Benzo[a]anthracene</b>	<b>7.2 J</b>		38	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Benzo[a]pyrene	<38 *		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Benzo[b]fluoranthene	<38 *		38	8.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>Chrysene</b>	<b>10 J</b>		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>Fluoranthene</b>	<b>11 J</b>		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Hexachlorobenzene	<77 *		77	8.9	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-4(0-1)-030416**

**Lab Sample ID: 500-108387-17**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 83.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>Phenanthrene</b>	<b>39</b>		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1
<b>Pyrene</b>	<b>24</b>	<b>J</b>	38	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 08:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137	03/07/16 07:05	03/08/16 08:50	1
2-Fluorobiphenyl	97		25 - 119	03/07/16 07:05	03/08/16 08:50	1
2-Fluorophenol	84		25 - 110	03/07/16 07:05	03/08/16 08:50	1
Nitrobenzene-d5	90		25 - 115	03/07/16 07:05	03/08/16 08:50	1
Phenol-d5	77		31 - 110	03/07/16 07:05	03/08/16 08:50	1
Terphenyl-d14	219	X	36 - 134	03/07/16 07:05	03/08/16 08:50	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		03/08/16 08:27	03/09/16 22:26	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 23:09	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 23:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
<b>Copper</b>	<b>0.015</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 23:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 22:26	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 23:09	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 23:09	1
<b>Zinc</b>	<b>0.28</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 23:09	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.069</b>		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 16:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 16:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Chromium</b>	<b>0.045</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Iron</b>	<b>120</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Lead</b>	<b>0.058</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 16:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: AL23-4(0-1)-030416**

**Lab Sample ID: 500-108387-17**

Date Collected: 03/04/16 12:20

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 83.5

**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		03/08/16 14:49	03/09/16 16:08	1
<b>Zinc</b>	<b>0.22</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 16:08	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	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Arsenic</b>	<b>13</b>		0.57	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Barium</b>	<b>24</b>		0.57	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Beryllium</b>	<b>0.28</b>		0.23	0.049	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Cadmium</b>	<b>0.098</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Calcium</b>	<b>10000</b>		11	3.7	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Chromium</b>	<b>7.2</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Cobalt</b>	<b>2.6</b>		0.29	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Copper</b>	<b>3.3</b>		0.57	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Lead</b>	<b>11</b>		0.29	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Magnesium</b>	<b>6400</b>		5.7	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Manganese</b>	<b>130</b>		0.57	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Nickel</b>	<b>4.5</b>		0.57	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Potassium</b>	<b>170</b>		29	4.7	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Selenium</b>	<b>0.54</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Sodium</b>	<b>700</b>		57	7.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Vanadium</b>	<b>13</b>		0.29	0.083	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	1
<b>Zinc</b>	<b>19</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:37	03/07/16 15:59	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		03/07/16 15:00	03/10/16 17:34	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>18</b>		18	9.6	ug/Kg	☼	03/07/16 19:00	03/10/16 19:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.48</b>		0.200	0.200	SU			03/07/16 17:31	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#


## Chain of Custody Record

Lab Job #: 500-108387

Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NO3	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHU</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHU</u>	Date <u>03/04/16</u>	Time <u>1650</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:  
 \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP/SPR Metals	PH
11		R25-1(0-1)-030416	3-4-16	1120	2 S		X	X	X	X	X
12		R25-1(0-1)-030416D		1120							
13		SR-8(0-1)-030416		1135							
14		AL23-1(0-1)-030416		1145							
15		AL23-2(0-1)-030416		1200							
16		AL23-3(0-1)-030416		1210							
17		AL23-4(0-1)-030416		1220							
18		WL21-1(0-1)-030416		1255							
19		WL21-2(0-1)-030416		1305							
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Zuma</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CME  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22800-23100 blocks of W. IL 113 (ISGS Site No. 2948-24)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261146575 Longitude: -88.164961235  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113Latitude: 41.261146575 Longitude: -88.164961235Uncontaminated 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 SR-1 THROUGH SR-6 AND SR-8 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-24. SEE FIGURES 3-4/3-5 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 REPORTS - JOB ID: 500-108245-1 AND 500-108387-1.  
ALSO SEE FIGURES 4-4 AND 4-5 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-24**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	SR-1(0-1)-030216	SR-2(0-1)-030416	SR-3(0-1)-030416	SR-4(0-1)-030416	SR-5(0-1)-030416	SR-6(0-1)-030416	SR-8(0-1)-030416	Soil Reference Concentrations
Sample Date	3/2/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	SR-1	SR-2	SR-3	SR-4	SR-5	SR-6	SR-8	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-24	2948-24	2948-24	2948-24	2948-24	2948-24	2948-24	
<b>Parameter</b>								
Laboratory pH	7.73	8.71	8.14	7.82	7.3	7.54	8.01	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected							
<b>SVOCs (ug/kg)</b>								
Benzo(a)anthracene	7.1 J	11 J	9.8 J	63	ND	38	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	10 J	64	ND	52 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	14 J	16 J	12 J	110	ND	57 J	ND	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	ND	ND	32 J	ND	ND	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>								
Arsenic, Total	8.7 J	2.6 J	2.4 J	1.5 J	0.58 J	2 J	1.3 J	11.3 / 13
Barium, Total	37	40 J	25 J	10 J	17 J	16 J	14 J	1500
Beryllium, Total	0.27	0.56	0.34	0.16 J	0.1 J	0.24	0.16 J	22
Cadmium, Total	0.22 J	0.19	0.13	0.048 J	0.045 J	0.14	ND	5.2
Calcium, Total	18000 J	50000 J	23000 J	3200 J	1600 J	12000 J	880 J	---
Chromium, Total	6.9 B	5.4 J	5.7 J	6.5 J	4.7 J	6.1 J	6.7 J	21
Iron, Total	23000 J	7700 J	6600 J	5100 J	1800 J	5700 J	5000 J	15000 / 15900
Lead, Total	20 J	24 J	12 J	5.5 J	3.4 J	21 J	3 J	107
Manganese, Total	160 J	310 J	160 J	24 J	36 J	70 J	20 J	630 / 636
Mercury, Total	ND	ND	0.0099 J	0.021 J	0.015 J	0.012 J	0.011 J	0.89
Nickel, Total	4.4 B	4.4	4.2	3.6	2.5	4.1	3.1	100
Potassium, Total	220	320 J	250 J	160 J	190 J	220 J	170 J	---
Selenium, Total	0.37 J	0.79	0.4 J	ND	0.28 J	0.4 J	0.32 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	30	24	20	10	9.7	26	7.8	5100
<b>TCLP Metals (mg/l)</b>								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.4 J	0.14 J	0.18 J	0.12 J	0.18 J	0.16 J	0.15 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	2.1	0.74	0.75	0.37	0.14	0.59	0.18	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.4 J	ND	ND	ND	ND	ND	ND	5

**Summary Table of ISGS Site No. 2948-24**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	SR-1(0-1)-030216	SR-2(0-1)-030416	SR-3(0-1)-030416	SR-4(0-1)-030416	SR-5(0-1)-030416	SR-6(0-1)-030416	SR-8(0-1)-030416	Soil Reference Concentrations
Sample Date	3/2/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	SR-1	SR-2	SR-3	SR-4	SR-5	SR-6	SR-8	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-24	2948-24	2948-24	2948-24	2948-24	2948-24	2948-24	
Parameter								
SPLP Metals (mg/l)								
Arsenic, SPLP	0.024 J	ND	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.18 J	0.12 J	0.097 J	0.058 J	0.091 J	0.087 J	0.054 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.033	0.023 J	0.022 J	ND	ND	ND	ND	0.1
Iron, SPLP	41 J-	23 J	19 J	0.65 J	0.24 J	6.3 J	1.8 J	5
Lead, SPLP	0.046	0.042	0.037	ND	ND	0.022	ND	0.0075
Manganese, SPLP	0.31	0.38	0.25	ND	ND	0.043	ND	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.017 J	0.014 J	0.012 J	0.016 J	0.019 J	ND	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	0.085 J	0.084 J	0.11 J	0.12 J	0.35 J	0.22 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108245-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/11/2016 11:23:38 AM

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: SR-1(0-1)-030216**

**Lab Sample ID: 500-108245-14**

**Date Collected: 03/02/16 15:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/03/16 22:36	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 22:36	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/03/16 22:36	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 22:36	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 22:36	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 22:36	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/03/16 22:36	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
Chloromethane	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 22:36	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
Dibromochloromethane	<6.0		6.0	0.70	ug/Kg	☼		03/03/16 22:36	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
1,2-Dichloroethane	<6.0		6.0	0.90	ug/Kg	☼		03/03/16 22:36	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 22:36	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 22:36	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 22:36	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 22:36	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/03/16 22:36	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/03/16 22:36	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 22:36	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/03/16 22:36	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 22:36	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 22:36	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 22:36	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 22:36	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 22:36	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 22:36	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 22:36	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/03/16 22:36	1
Dibromofluoromethane	96		75 - 120		03/03/16 22:36	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		03/03/16 22:36	1
Toluene-d8 (Surr)	108		75 - 122		03/03/16 22:36	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	☼	03/06/16 10:59	03/08/16 20:13	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: SR-1(0-1)-030216**

**Lab Sample ID: 500-108245-14**

**Date Collected: 03/02/16 15:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.7**

**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	☼	03/06/16 10:59	03/08/16 20:13	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
<b>Benzo[a]anthracene</b>	<b>7.1</b>	<b>J</b>	39	5.3	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Benzo[a]pyrene	<39	*	39	7.6	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
<b>Benzo[b]fluoranthene</b>	<b>14</b>	<b>J *</b>	39	8.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Benzo[k]fluoranthene	<39	*	39	11	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Carbazole	<200		200	97	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Chrysene	<39		39	11	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Dibenz(a,h)anthracene	<39	*	39	7.5	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
<b>Fluoranthene</b>	<b>12</b>	<b>J</b>	39	7.2	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: SR-1(0-1)-030216**

**Lab Sample ID: 500-108245-14**

**Date Collected: 03/02/16 15:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.7**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Isophorone	<200		200	44	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
<b>Phenanthrene</b>	<b>26</b>	<b>J</b>	39	5.4	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Phenol	<200		200	87	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
<b>Pyrene</b>	<b>20</b>	<b>J</b>	39	7.8	ug/Kg	☼	03/06/16 10:59	03/08/16 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		35 - 137				03/06/16 10:59	03/08/16 20:13	1
2-Fluorobiphenyl	65		25 - 119				03/06/16 10:59	03/08/16 20:13	1
2-Fluorophenol	67		25 - 110				03/06/16 10:59	03/08/16 20:13	1
Nitrobenzene-d5	55		25 - 115				03/06/16 10:59	03/08/16 20:13	1
Phenol-d5	55		31 - 110				03/06/16 10:59	03/08/16 20:13	1
Terphenyl-d14	103		36 - 134				03/06/16 10:59	03/08/16 20:13	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		03/07/16 08:53	03/08/16 02:50	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:53	03/08/16 02:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:53	03/08/16 02:50	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:53	03/08/16 02:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:53	03/08/16 02:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:53	03/08/16 02:50	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:53	03/08/16 02:50	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:53	03/08/16 02:50	1
<b>Zinc</b>	<b>0.40</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:53	03/08/16 02:50	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.024</b>	<b>J</b>	0.050	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:14	03/08/16 20:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:14	03/08/16 20:09	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Chromium</b>	<b>0.033</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Iron</b>	<b>41</b>		0.40	0.20	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Lead</b>	<b>0.046</b>		0.0075	0.0075	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:14	03/08/16 20:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:14	03/08/16 20:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

**Client Sample ID: SR-1(0-1)-030216**

**Lab Sample ID: 500-108245-14**

**Date Collected: 03/02/16 15:20**

**Matrix: Solid**

**Date Received: 03/02/16 16:25**

**Percent Solids: 82.7**

**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		03/06/16 11:14	03/08/16 20:09	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/06/16 11:14	03/08/16 20:09	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98	F1	0.98	0.20	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Arsenic</b>	<b>8.7</b>	<b>F1 F2</b>	0.49	0.23	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Barium</b>	<b>37</b>		0.49	0.089	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Beryllium</b>	<b>0.27</b>		0.20	0.042	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Cadmium</b>	<b>0.22</b>		0.098	0.028	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Calcium</b>	<b>18000</b>	<b>F2</b>	9.8	3.1	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Chromium</b>	<b>6.9</b>	<b>B</b>	0.49	0.084	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Cobalt</b>	<b>2.2</b>		0.24	0.055	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Copper</b>	<b>3.5</b>		0.49	0.11	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Iron</b>	<b>23000</b>		11	4.1	mg/Kg	☼	03/07/16 09:19	03/07/16 19:39	1
<b>Lead</b>	<b>20</b>	<b>F1</b>	0.24	0.12	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Magnesium</b>	<b>10000</b>	<b>F2</b>	4.9	2.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Manganese</b>	<b>160</b>		0.49	0.097	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Nickel</b>	<b>4.4</b>	<b>B</b>	0.49	0.13	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Potassium</b>	<b>220</b>		24	4.0	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Selenium</b>	<b>0.37</b>	<b>J F1</b>	0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Sodium</b>	<b>300</b>		49	6.4	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Vanadium</b>	<b>12</b>		0.24	0.071	mg/Kg	☼	03/04/16 08:56	03/04/16 21:47	1
<b>Zinc</b>	<b>30</b>		1.1	0.33	mg/Kg	☼	03/07/16 09:19	03/07/16 19:39	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		03/07/16 15:00	03/08/16 14:39	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 19:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J B</b>	19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.73</b>		0.200	0.200	SU			03/03/16 23:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
*	ISTD response or retention time outside acceptable 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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108245-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108245 COC

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 3 of 4  
Temperature °C of Cooler: 2.4/2.7

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments						
<u>IDOT-040</u>				Date	Time														
Project Location/State		Lab PM																	
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPUP Metals	HA	Comments							
1		F12-1(0-1)-030216	3-2-16	1305	2	S	X	X	X	X	↑								
2		<del>F12-1(0-1)-030216D</del>		<del>1320</del>								F12-1(0-1)							
3		R14-1(0-1)-030216		1320															
4		WL15-1(0-1)-030216		1330															
5		R14-2(0-1)-030216		1340															
6		R17-1(0-1)-030216		1350															
7		F18-1(0-1)-030216		1400															
8		R20-1(0-1)-030216		1410															
9		<del>R22-1(0-1)-030216</del>		1425								AL19-1(0-1)							
10		R22-1(0-1)-030216	3-2-16	1445	2	S	X	X	X	X	↑								

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: Weston Solutions  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108245  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>IDOT-040</u>									
Project Location/State		Lab PM		Date		Time			
<u>Braidwood &amp; Cresta Park/IL</u>		<u>D. Wright</u>							
Sampler		Sample ID		Date		Time			
<u>T. Walls</u>									
<u>11</u>		<u>R22-2(0-1)-030216</u>	<u>3-2-16</u>	<u>1558</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R22-3(0-1)-030216</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>R22-3(0-1)-030216D</u>	<u>↓</u>	<u>1505</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>SR-1(0-1)-030216</u>	<u>3-2-16</u>	<u>1520</u>	<u>2 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del>7-6-2016 3-2-16</del>									

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-2-16</u>	Time <u>1530</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/2/16</u>	Time <u>1625</u>	Received By <u>[Signature]</u>	Company <u>TA-CRE</u>	Date <u>3/3/16</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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results through  
**TotalAccess**

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[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
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- 15



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-2(0-1)-030416**

**Lab Sample ID: 500-108387-1**

**Date Collected: 03/04/16 08:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 14:41	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 14:41	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/05/16 14:41	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 14:41	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 14:41	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 14:41	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
Chloroethane	<5.9 *		5.9	2.5	ug/Kg	☼		03/05/16 14:41	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 14:41	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/05/16 14:41	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 14:41	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 14:41	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 14:41	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 14:41	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 14:41	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/05/16 14:41	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 14:41	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/05/16 14:41	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 14:41	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 14:41	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 14:41	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
1,1,2-Trichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 14:41	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 14:41	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 14:41	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 14:41	1
Dibromofluoromethane	105		75 - 120		03/05/16 14:41	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/05/16 14:41	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 14:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-2(0-1)-030416**

**Lab Sample ID: 500-108387-1**

**Date Collected: 03/04/16 08:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,4,6-Trichlorophenol	<390	F2	390	140	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,4-Dinitrophenol	<790	F1	790	690	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>2-Methylnaphthalene</b>	<b>9.2</b>	<b>J</b>	39	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4,6-Dinitro-2-methylphenol	<790	F1	790	320	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Bromophenyl phenyl ether	<200	* F1	200	52	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Anthracene	<39		39	6.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Benzo[a]anthracene</b>	<b>11</b>	<b>J</b>	39	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Benzo[a]pyrene	<39	*	39	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Benzo[b]fluoranthene</b>	<b>16</b>	<b>J *</b>	39	8.5	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Benzo[k]fluoranthene	<39	*	39	12	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Bis(2-ethylhexyl) phthalate	<200	F1	200	72	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Butyl benzyl phthalate	<200	F1	200	75	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Carbazole	<200		200	98	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Chrysene</b>	<b>12</b>	<b>J</b>	39	11	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Fluoranthene</b>	<b>16</b>	<b>J</b>	39	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Hexachlorobenzene	<79	* F1	79	9.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Hexachlorocyclopentadiene	<790	F1	790	230	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-2(0-1)-030416**

**Lab Sample ID: 500-108387-1**

**Date Collected: 03/04/16 08:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Isophorone	<200		200	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Pentachlorophenol	<790	F2	790	630	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Phenanthrene</b>	<b>50</b>		39	5.5	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
Phenol	<200		200	87	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1
<b>Pyrene</b>	<b>25</b>	<b>J F1</b>	39	7.8	ug/Kg	☼	03/07/16 07:05	03/08/16 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		35 - 137	03/07/16 07:05	03/08/16 07:02	1
2-Fluorobiphenyl	93		25 - 119	03/07/16 07:05	03/08/16 07:02	1
2-Fluorophenol	77		25 - 110	03/07/16 07:05	03/08/16 07:02	1
Nitrobenzene-d5	82		25 - 115	03/07/16 07:05	03/08/16 07:02	1
Phenol-d5	72		31 - 110	03/07/16 07:05	03/08/16 07:02	1
Terphenyl-d14	171	X	36 - 134	03/07/16 07:05	03/08/16 07:02	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 20:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 20:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 20:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 20:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/08/16 20:29	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 20:29	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:29	1
<b>Zinc</b>	<b>0.025</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 20:29	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		03/08/16 14:49	03/09/16 13:28	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Chromium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Iron</b>	<b>23</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Lead</b>	<b>0.042</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:28	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 13:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-2(0-1)-030416**

**Lab Sample ID: 500-108387-1**

**Date Collected: 03/04/16 08:25**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 84.1**

**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		03/08/16 14:49	03/09/16 13:28	1
<b>Zinc</b>	<b>0.085</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 13:28	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	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Arsenic</b>	<b>2.6</b>		0.55	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Barium</b>	<b>40</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Beryllium</b>	<b>0.56</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Calcium</b>	<b>50000</b>		110	36	mg/Kg	☼	03/05/16 12:37	03/08/16 14:51	10
<b>Chromium</b>	<b>5.4</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Cobalt</b>	<b>2.0</b>		0.28	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Copper</b>	<b>3.5</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Iron</b>	<b>7700</b>		11	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Lead</b>	<b>24</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Magnesium</b>	<b>20000</b>		5.5	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Manganese</b>	<b>310</b>		0.55	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Nickel</b>	<b>4.4</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Potassium</b>	<b>320</b>		28	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Selenium</b>	<b>0.79</b>		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Sodium</b>	<b>560</b>		55	7.3	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Vanadium</b>	<b>8.6</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	1
<b>Zinc</b>	<b>24</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 14:39	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		03/07/16 15:00	03/10/16 16:51	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		03/08/16 19:15	03/10/16 17:47	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19	F2	19	9.9	ug/Kg	☼	03/07/16 19:00	03/10/16 18:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.71</b>		0.200	0.200	SU			03/07/16 16:31	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-3(0-1)-030416**

**Lab Sample ID: 500-108387-2**

**Date Collected: 03/04/16 08:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 15:07	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:07	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/05/16 15:07	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:07	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:07	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
Chloroethane	<5.7 *		5.7	2.4	ug/Kg	☼		03/05/16 15:07	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 15:07	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:07	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/05/16 15:07	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/05/16 15:07	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:07	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 15:07	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:07	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 15:07	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/05/16 15:07	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 15:07	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:07	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/05/16 15:07	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:07	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 15:07	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:07	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:07	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 15:07	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:07	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:07	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/05/16 15:07	1
Dibromofluoromethane	104		75 - 120		03/05/16 15:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 15:07	1
Toluene-d8 (Surr)	105		75 - 122		03/05/16 15:07	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	☼	03/07/16 07:05	03/08/16 02:59	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-3(0-1)-030416**

**Lab Sample ID: 500-108387-2**

**Date Collected: 03/04/16 08:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.1**

**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	☼	03/07/16 07:05	03/08/16 02:59	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Bromophenyl phenyl ether	<190 *		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Benzo[a]anthracene</b>	<b>9.8 J</b>		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Benzo[a]pyrene</b>	<b>10 J</b>		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		37	8.1	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Chrysene</b>	<b>14 J</b>		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Fluoranthene</b>	<b>18 J</b>		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Hexachlorobenzene	<75 *		75	8.6	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-3(0-1)-030416**

**Lab Sample ID: 500-108387-2**

**Date Collected: 03/04/16 08:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.1**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Phenanthrene</b>	<b>44</b>		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1
<b>Pyrene</b>	<b>17 J</b>		37	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		35 - 137	03/07/16 07:05	03/08/16 02:59	1
2-Fluorobiphenyl	90		25 - 119	03/07/16 07:05	03/08/16 02:59	1
2-Fluorophenol	81		25 - 110	03/07/16 07:05	03/08/16 02:59	1
Nitrobenzene-d5	85		25 - 115	03/07/16 07:05	03/08/16 02:59	1
Phenol-d5	70		31 - 110	03/07/16 07:05	03/08/16 02:59	1
Terphenyl-d14	115		36 - 134	03/07/16 07:05	03/08/16 02:59	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
<b>Barium</b>	<b>0.18 J</b>		0.50	0.050	mg/L		03/08/16 08:27	03/08/16 20:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 20:36	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 20:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 20:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/08/16 20:36	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 20:36	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:36	1
<b>Zinc</b>	<b>0.028 J B</b>		0.50	0.020	mg/L		03/08/16 08:27	03/08/16 20:36	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Barium</b>	<b>0.097 J</b>		0.50	0.050	mg/L		03/08/16 14:49	03/09/16 13:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 13:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Chromium</b>	<b>0.022 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Copper</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Iron</b>	<b>19</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Lead</b>	<b>0.037</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
<b>Nickel</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 13:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 13:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-3(0-1)-030416**

**Lab Sample ID: 500-108387-2**

**Date Collected: 03/04/16 08:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.1**

**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		03/08/16 14:49	03/09/16 13:35	1
<b>Zinc</b>	<b>0.084</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 13:35	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	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Arsenic</b>	<b>2.4</b>		0.57	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Barium</b>	<b>25</b>		0.57	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Beryllium</b>	<b>0.34</b>		0.23	0.049	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.033	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Calcium</b>	<b>23000</b>		11	3.7	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Chromium</b>	<b>5.7</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Cobalt</b>	<b>2.1</b>		0.28	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Copper</b>	<b>3.3</b>		0.57	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Iron</b>	<b>6600</b>		11	4.4	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Lead</b>	<b>12</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Magnesium</b>	<b>14000</b>		5.7	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Manganese</b>	<b>160</b>		0.57	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Nickel</b>	<b>4.2</b>		0.57	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Potassium</b>	<b>250</b>		28	4.6	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Sodium</b>	<b>600</b>		57	7.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Vanadium</b>	<b>10</b>		0.28	0.083	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1
<b>Zinc</b>	<b>20</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:37	03/07/16 14:44	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 16:53	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		03/08/16 19:15	03/11/16 12:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>9.9</b>	<b>J</b>	17	9.1	ug/Kg	☼	03/07/16 19:00	03/10/16 19:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.14</b>		0.200	0.200	SU			03/07/16 16:34	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-4(0-1)-030416**

**Lab Sample ID: 500-108387-3**

**Date Collected: 03/04/16 08:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 15:32	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:32	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/05/16 15:32	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:32	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:32	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
Chloroethane	<5.7 *		5.7	2.4	ug/Kg	☼		03/05/16 15:32	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 15:32	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:32	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/05/16 15:32	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/05/16 15:32	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 15:32	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 15:32	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:32	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 15:32	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/05/16 15:32	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 15:32	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:32	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/05/16 15:32	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 15:32	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 15:32	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 15:32	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 15:32	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 15:32	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 15:32	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 15:32	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 15:32	1
Dibromofluoromethane	107		75 - 120		03/05/16 15:32	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 15:32	1
Toluene-d8 (Surr)	106		75 - 122		03/05/16 15:32	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	☼	03/07/16 07:05	03/08/16 03:26	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-4(0-1)-030416**

**Lab Sample ID: 500-108387-3**

**Date Collected: 03/04/16 08:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.4**

**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	85	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Bromophenyl phenyl ether	<190 *		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Acenaphthylene</b>	<b>9.9 J</b>		37	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Anthracene</b>	<b>8.0 J</b>		37	6.2	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Benzo[a]anthracene</b>	<b>63</b>		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Benzo[a]pyrene</b>	<b>64</b>		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		37	8.1	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Benzo[g,h,i]perylene</b>	<b>33 J</b>		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Benzo[k]fluoranthene</b>	<b>35 J</b>		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Chrysene</b>	<b>74</b>		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Fluoranthene</b>	<b>130</b>		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Hexachlorobenzene	<75 *		75	8.7	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-4(0-1)-030416**

**Lab Sample ID: 500-108387-3**

**Date Collected: 03/04/16 08:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.4**

## 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>32</b>	<b>J</b>	37	9.7	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Phenanthrene</b>	<b>51</b>		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
<b>Pyrene</b>	<b>100</b>		37	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		35 - 137				03/07/16 07:05	03/08/16 03:26	1
2-Fluorobiphenyl	94		25 - 119				03/07/16 07:05	03/08/16 03:26	1
2-Fluorophenol	86		25 - 110				03/07/16 07:05	03/08/16 03:26	1
Nitrobenzene-d5	85		25 - 115				03/07/16 07:05	03/08/16 03:26	1
Phenol-d5	74		31 - 110				03/07/16 07:05	03/08/16 03:26	1
Terphenyl-d14	117		36 - 134				03/07/16 07:05	03/08/16 03:26	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 20:43	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 20:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 20:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/08/16 20:43	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 20:43	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:43	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 20:43	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
<b>Barium</b>	<b>0.058</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 14:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 14:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
<b>Copper</b>	<b>0.054</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
<b>Iron</b>	<b>0.65</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 14:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 14:02	1
Manganese	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 14:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-4(0-1)-030416**

**Lab Sample ID: 500-108387-3**

**Date Collected: 03/04/16 08:40**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 87.4**

**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		03/08/16 14:49	03/09/16 14:02	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 14:02	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	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Arsenic</b>	<b>1.5</b>		0.54	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Barium</b>	<b>10</b>		0.54	0.099	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Cadmium</b>	<b>0.048</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Calcium</b>	<b>3200</b>		11	3.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Chromium</b>	<b>6.5</b>	<b>B</b>	0.54	0.093	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Cobalt</b>	<b>1.2</b>		0.27	0.061	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Copper</b>	<b>2.7</b>		0.54	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Iron</b>	<b>5100</b>		11	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Lead</b>	<b>5.5</b>		0.27	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Magnesium</b>	<b>2200</b>		5.4	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Manganese</b>	<b>24</b>		0.54	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Nickel</b>	<b>3.6</b>		0.54	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Potassium</b>	<b>160</b>		27	4.4	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Sodium</b>	<b>190</b>		54	7.1	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Vanadium</b>	<b>12</b>		0.27	0.079	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1
<b>Zinc</b>	<b>10</b>		1.1	0.34	mg/Kg	☼	03/05/16 12:37	03/07/16 14:50	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 16:59	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		03/08/16 19:15	03/10/16 17:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>21</b>		19	9.8	ug/Kg	☼	03/07/16 19:00	03/10/16 19:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.82</b>		0.200	0.200	SU			03/07/16 16:38	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-5(0-1)-030416**

**Lab Sample ID: 500-108387-4**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 15:57	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 15:57	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/05/16 15:57	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:57	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:57	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
Chloroethane	<5.8 *		5.8	2.4	ug/Kg	☼		03/05/16 15:57	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 15:57	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 15:57	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/05/16 15:57	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/05/16 15:57	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:57	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 15:57	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:57	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 15:57	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 15:57	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 15:57	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 15:57	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 15:57	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 15:57	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 15:57	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:57	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 15:57	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 15:57	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 15:57	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		03/05/16 15:57	1
Dibromofluoromethane	103		75 - 120		03/05/16 15:57	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 15:57	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 15:57	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	☼	03/07/16 07:05	03/08/16 03:53	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-5(0-1)-030416**

**Lab Sample ID: 500-108387-4**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Carbazole	<190		190	94	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Hexachlorobenzene	<76 *		76	8.7	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-5(0-1)-030416**

**Lab Sample ID: 500-108387-4**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Phenanthrene	<37		37	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Phenol	<190		190	84	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1
Pyrene	<37		37	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		35 - 137	03/07/16 07:05	03/08/16 03:53	1
2-Fluorobiphenyl	95		25 - 119	03/07/16 07:05	03/08/16 03:53	1
2-Fluorophenol	86		25 - 110	03/07/16 07:05	03/08/16 03:53	1
Nitrobenzene-d5	88		25 - 115	03/07/16 07:05	03/08/16 03:53	1
Phenol-d5	72		31 - 110	03/07/16 07:05	03/08/16 03:53	1
Terphenyl-d14	122		36 - 134	03/07/16 07:05	03/08/16 03:53	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 20:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/08/16 20:49	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 20:49	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 20:49	1
<b>Zinc</b>	<b>0.035</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 20:49	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		03/08/16 14:49	03/09/16 14:09	1
<b>Barium</b>	<b>0.091</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 14:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 14:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 14:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:09	1
<b>Copper</b>	<b>0.080</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:09	1
<b>Iron</b>	<b>0.24</b>	<b>J</b>	0.40	0.20	mg/L		03/08/16 14:49	03/09/16 14:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 14:09	1
Manganese	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:09	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 14:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-5(0-1)-030416**

**Lab Sample ID: 500-108387-4**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.8**

**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		03/08/16 14:49	03/09/16 14:09	1
<b>Zinc</b>	<b>0.12</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 14:09	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	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Arsenic</b>	<b>0.58</b>		0.57	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Barium</b>	<b>17</b>		0.57	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Beryllium</b>	<b>0.10</b>	<b>J</b>	0.23	0.049	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Cadmium</b>	<b>0.045</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Calcium</b>	<b>1600</b>		11	3.6	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Chromium</b>	<b>4.7</b>	<b>B</b>	0.57	0.097	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Cobalt</b>	<b>0.57</b>		0.28	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Copper</b>	<b>1.1</b>		0.57	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Iron</b>	<b>1800</b>		11	4.4	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Lead</b>	<b>3.4</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Magnesium</b>	<b>950</b>		5.7	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Manganese</b>	<b>36</b>		0.57	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Nickel</b>	<b>2.5</b>		0.57	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Potassium</b>	<b>190</b>		28	4.6	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Sodium</b>	<b>74</b>		57	7.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Vanadium</b>	<b>4.4</b>		0.28	0.083	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	1
<b>Zinc</b>	<b>9.7</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:37	03/07/16 14:54	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		03/07/16 15:00	03/10/16 17:01	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		03/08/16 19:15	03/10/16 17:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>15</b>	<b>J</b>	18	9.7	ug/Kg	☼	03/07/16 19:00	03/10/16 19:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.30</b>		0.200	0.200	SU			03/07/16 16:41	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-6(0-1)-030416**

**Lab Sample ID: 500-108387-5**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 16:22	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/05/16 16:22	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:22	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:22	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
Chloroethane	<5.7 *		5.7	2.4	ug/Kg	☼		03/05/16 16:22	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 16:22	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:22	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/05/16 16:22	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/05/16 16:22	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:22	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 16:22	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 16:22	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:22	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 16:22	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/05/16 16:22	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 16:22	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/05/16 16:22	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:22	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 16:22	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:22	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 16:22	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:22	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 16:22	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 16:22	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:22	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 16:22	1
Dibromofluoromethane	105		75 - 120		03/05/16 16:22	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 16:22	1
Toluene-d8 (Surr)	105		75 - 122		03/05/16 16:22	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	40	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-6(0-1)-030416**

**Lab Sample ID: 500-108387-5**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	84	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>2-Methylnaphthalene</b>	<b>14</b>	<b>J</b>	36	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Bromophenyl phenyl ether	<180 *		180	48	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Anthracene</b>	<b>9.1</b>	<b>J</b>	36	6.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Benzo[a]anthracene</b>	<b>38</b>		36	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Benzo[a]pyrene</b>	<b>52</b>	*	36	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Benzo[b]fluoranthene</b>	<b>57</b>	*	36	7.9	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Benzo[k]fluoranthene</b>	<b>27</b>	<b>J *</b>	36	11	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Carbazole	<180		180	92	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Chrysene</b>	<b>50</b>		36	10	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Fluoranthene</b>	<b>51</b>		36	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Hexachlorobenzene	<74 *		74	8.5	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-6(0-1)-030416**

**Lab Sample ID: 500-108387-5**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	☼	03/07/16 07:05	03/08/16 07:29	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Naphthalene</b>	<b>6.1</b>	<b>J</b>	36	5.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Phenanthrene</b>	<b>120</b>		36	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
<b>Pyrene</b>	<b>110</b>		36	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 07:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	127		35 - 137				03/07/16 07:05	03/08/16 07:29	1
2-Fluorobiphenyl	99		25 - 119				03/07/16 07:05	03/08/16 07:29	1
2-Fluorophenol	87		25 - 110				03/07/16 07:05	03/08/16 07:29	1
Nitrobenzene-d5	91		25 - 115				03/07/16 07:05	03/08/16 07:29	1
Phenol-d5	85		31 - 110				03/07/16 07:05	03/08/16 07:29	1
Terphenyl-d14	213	X	36 - 134				03/07/16 07:05	03/08/16 07:29	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		03/08/16 08:27	03/09/16 20:22	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 21:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 20:22	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 21:12	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:12	1
<b>Zinc</b>	<b>0.099</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 21:12	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
<b>Barium</b>	<b>0.087</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 14:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 14:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
<b>Iron</b>	<b>6.3</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 14:15	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 14:15	1
<b>Manganese</b>	<b>0.043</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 14:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-6(0-1)-030416**

**Lab Sample ID: 500-108387-5**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.1**

**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		03/08/16 14:49	03/09/16 14:15	1
<b>Zinc</b>	<b>0.35</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 14:15	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	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Arsenic</b>	<b>2.0</b>		0.55	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Barium</b>	<b>16</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Beryllium</b>	<b>0.24</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Cadmium</b>	<b>0.14</b>		0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Calcium</b>	<b>12000</b>		11	3.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Chromium</b>	<b>6.1</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Cobalt</b>	<b>1.7</b>		0.27	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Copper</b>	<b>3.5</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Iron</b>	<b>5700</b>		11	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Lead</b>	<b>21</b>		0.27	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Magnesium</b>	<b>7400</b>		5.5	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Manganese</b>	<b>70</b>		0.55	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Nickel</b>	<b>4.1</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Potassium</b>	<b>220</b>		27	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Sodium</b>	<b>200</b>		55	7.3	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Vanadium</b>	<b>11</b>		0.27	0.080	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	1
<b>Zinc</b>	<b>26</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 14:58	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		03/07/16 15:00	03/10/16 17:03	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		03/08/16 19:15	03/10/16 18:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	16	8.5	ug/Kg	☼	03/07/16 19:00	03/10/16 19:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.54</b>		0.200	0.200	SU			03/07/16 16:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-8(0-1)-030416**

**Lab Sample ID: 500-108387-13**

**Date Collected: 03/04/16 11:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 12:33	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 12:33	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/05/16 12:33	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 12:33	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 12:33	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/05/16 12:33	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 12:33	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 12:33	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/05/16 12:33	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/05/16 12:33	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 12:33	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 12:33	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 12:33	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 12:33	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 12:33	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 12:33	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 12:33	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 12:33	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 12:33	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 12:33	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 12:33	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 12:33	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 12:33	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 12:33	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 12:33	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/05/16 12:33	1
Dibromofluoromethane	106		75 - 120		03/05/16 12:33	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/05/16 12:33	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 12:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-8(0-1)-030416**

**Lab Sample ID: 500-108387-13**

**Date Collected: 03/04/16 11:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	<380		380	87	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Chrysene	<38		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Hexachlorobenzene	<77 *		77	8.8	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-8(0-1)-030416**

**Lab Sample ID: 500-108387-13**

**Date Collected: 03/04/16 11:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	<38		38	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1
Pyrene	<38		38	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		35 - 137	03/07/16 07:05	03/08/16 02:05	1
2-Fluorobiphenyl	101		25 - 119	03/07/16 07:05	03/08/16 02:05	1
2-Fluorophenol	91		25 - 110	03/07/16 07:05	03/08/16 02:05	1
Nitrobenzene-d5	94		25 - 115	03/07/16 07:05	03/08/16 02:05	1
Phenol-d5	77		31 - 110	03/07/16 07:05	03/08/16 02:05	1
Terphenyl-d14	126		36 - 134	03/07/16 07:05	03/08/16 02:05	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 21:59	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:42	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:42	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/08/16 08:27	03/09/16 21:59	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 21:59	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:42	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:42	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:42	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		03/08/16 14:49	03/09/16 15:25	1
<b>Barium</b>	<b>0.054</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:25	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:25	1
<b>Iron</b>	<b>1.8</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:25	1
Manganese	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: SR-8(0-1)-030416**

**Lab Sample ID: 500-108387-13**

Date Collected: 03/04/16 11:35

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 86.1

### 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		03/08/16 14:49	03/09/16 15:25	1
Zinc	0.22	J	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:25	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	☼	03/05/16 12:37	03/07/16 15:41	1
Arsenic	1.3		0.53	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Barium	14		0.53	0.097	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Beryllium	0.16	J	0.21	0.046	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Calcium	880		11	3.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Chromium	6.7	B	0.53	0.091	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Cobalt	1.1		0.27	0.060	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Copper	1.2		0.53	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Iron	5000		11	4.1	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Lead	3.0		0.27	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Magnesium	680		5.3	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Manganese	20		0.53	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Nickel	3.1		0.53	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Potassium	170		27	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Selenium	0.32	J	0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Sodium	170		53	7.0	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Vanadium	12		0.27	0.078	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1
Zinc	7.8		1.1	0.34	mg/Kg	☼	03/05/16 12:37	03/07/16 15:41	1

### Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 17:22	1

### Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:20	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	J	17	8.8	ug/Kg	☼	03/07/16 19:00	03/10/16 19:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			03/07/16 17:13	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusulkumar \_\_\_\_\_ Contact: \_\_\_\_\_  
 Company: Weston \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: 300 Plaza Circle, Ste 202 \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: Mundheim, FL 60060 \_\_\_\_\_ Address: Same \_\_\_\_\_  
 Phone: 224-864-7250 \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
 Chain of Custody Number: \_\_\_\_\_  
 Page 1 of 4  
 Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Brevard/Creeper Park/FL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Wall</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHU</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHU</u>	Date <u>03/04/16</u>	Time <u>1650</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: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sewer  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP/SPR Metals	PH
11		R25-1(0-1)-030416	3-4-16	1120	2 S		X	X	X	X	X
12		R25-1(0-1)-030416D		1120							
13		SR-8(0-1)-030416		1135							
14		AL23-1(0-1)-030416		1145							
15		AL23-2(0-1)-030416		1200							
16		AL23-3(0-1)-030416		1210							
17		AL23-4(0-1)-030416		1220							
18		WL21-1(0-1)-030416		1255							
19		WL21-2(0-1)-030416		1305							
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Zuma</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CME  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22940 W. IL 113 (ISGS Site No. 2948-25)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261270122 Longitude: -88.163943923  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261270122 Longitude: -88.163943923

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 R25-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-25. SEE FIGURE 3-5 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: 500-108387-1.  
ALSO SEE FIGURE 4-5 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:

5 May 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-25**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R25-1(0-1)-030416	R25-1(0-1)-030416D	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	
Location ID	R25-1	R25-1	
Depth	0 - 1	0 - 1	
Location Code	2948-25	2948-25	
<b>Parameter</b>			
Laboratory pH	8.54	8.53	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>		
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.3 J	1.1 J	11.3 / 13
Barium, Total	20 J	21 J	1500
Beryllium, Total	0.17 J	0.11 J	22
Cadmium, Total	0.11	0.084 J	5.2
Calcium, Total	2000 J	1100 J	---
Chromium, Total	5.9 J	5.4 J	21
Iron, Total	3100 J	2600 J	15000 / 15900
Lead, Total	7.9 J	5.8 J	107
Manganese, Total	48 J	33 J	630 / 636
Mercury, Total	0.028 J	0.032 J	0.89
Nickel, Total	3.3	2.9	100
Potassium, Total	180 J	170 J	---
Selenium, Total	0.34 J	0.73	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	17	13	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.15 J	0.18 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.14	0.16	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	ND	0.97 B	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.13 J	0.14 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	ND	0.023 J	0.1
Iron, SPLP	3.3 J	9.3 J	5
Lead, SPLP	0.0089 J	0.019 J	0.0075
Manganese, SPLP	0.038 J	0.086 J	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	0.013 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.21 J	0.17 J	5

**Summary Table of ISGS Site No. 2948-25**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416**

**Lab Sample ID: 500-108387-11**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 18:53	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 18:53	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/05/16 18:53	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 18:53	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 18:53	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
Chloroethane	<5.8 *		5.8	2.4	ug/Kg	☼		03/05/16 18:53	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 18:53	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 18:53	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/05/16 18:53	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/05/16 18:53	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 18:53	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 18:53	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 18:53	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 18:53	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 18:53	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 18:53	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 18:53	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 18:53	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 18:53	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 18:53	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 18:53	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 18:53	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 18:53	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 18:53	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 18:53	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 18:53	1
Dibromofluoromethane	103		75 - 120		03/05/16 18:53	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/05/16 18:53	1
Toluene-d8 (Surr)	106		75 - 122		03/05/16 18:53	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	☼	03/07/16 07:05	03/08/16 01:11	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416**

**Lab Sample ID: 500-108387-11**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Carbazole	<190		190	94	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Hexachlorobenzene	<76 *		76	8.7	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416**

**Lab Sample ID: 500-108387-11**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
<b>Phenanthrene</b>	<b>7.9</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1
Pyrene	<37		37	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		35 - 137	03/07/16 07:05	03/08/16 01:11	1
2-Fluorobiphenyl	95		25 - 119	03/07/16 07:05	03/08/16 01:11	1
2-Fluorophenol	83		25 - 110	03/07/16 07:05	03/08/16 01:11	1
Nitrobenzene-d5	87		25 - 115	03/07/16 07:05	03/08/16 01:11	1
Phenol-d5	81		31 - 110	03/07/16 07:05	03/08/16 01:11	1
Terphenyl-d14	115		36 - 134	03/07/16 07:05	03/08/16 01:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 21:46	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
<b>Copper</b>	<b>0.013</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 21:46	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:13	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:13	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
<b>Iron</b>	<b>3.3</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:12	1
<b>Lead</b>	<b>0.0089</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:12	1
<b>Manganese</b>	<b>0.038</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416**

**Lab Sample ID: 500-108387-11**

Date Collected: 03/04/16 11:20

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 86.7

**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		03/08/16 14:49	03/09/16 15:12	1
<b>Zinc</b>	<b>0.21</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:12	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	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Arsenic</b>	<b>1.3</b>		0.53	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Barium</b>	<b>20</b>		0.53	0.097	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.031	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Calcium</b>	<b>2000</b>		11	3.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Chromium</b>	<b>5.9</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Cobalt</b>	<b>1.1</b>		0.27	0.060	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Copper</b>	<b>1.5</b>		0.53	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Iron</b>	<b>3100</b>		11	4.1	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Lead</b>	<b>7.9</b>		0.27	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Magnesium</b>	<b>1100</b>		5.3	2.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Manganese</b>	<b>48</b>		0.53	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Nickel</b>	<b>3.3</b>		0.53	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Potassium</b>	<b>180</b>		27	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Selenium</b>	<b>0.34</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Sodium</b>	<b>570</b>		53	7.0	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Vanadium</b>	<b>8.6</b>		0.27	0.078	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1
<b>Zinc</b>	<b>17</b>		1.1	0.34	mg/Kg	☼	03/05/16 12:37	03/07/16 15:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 17:18	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		03/08/16 19:15	03/10/16 18:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		19	9.7	ug/Kg	☼	03/07/16 19:00	03/10/16 19:28	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			03/07/16 17:06	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416D**

**Lab Sample ID: 500-108387-12**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 19:18	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 19:18	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/05/16 19:18	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 19:18	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 19:18	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
Chloroethane	<5.8 *		5.8	2.4	ug/Kg	☼		03/05/16 19:18	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 19:18	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 19:18	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/05/16 19:18	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/05/16 19:18	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 19:18	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 19:18	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 19:18	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 19:18	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 19:18	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 19:18	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 19:18	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 19:18	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 19:18	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 19:18	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 19:18	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 19:18	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 19:18	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 19:18	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 19:18	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 19:18	1
Dibromofluoromethane	103		75 - 120		03/05/16 19:18	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 19:18	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 19:18	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	☼	03/07/16 07:05	03/08/16 01:38	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416D**

**Lab Sample ID: 500-108387-12**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.8**

**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	☼	03/07/16 07:05	03/08/16 01:38	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Bromophenyl phenyl ether	<190 *		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Hexachlorobenzene	<75 *		75	8.6	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416D**

**Lab Sample ID: 500-108387-12**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Phenol	<190		190	82	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Pyrene	<37		37	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		35 - 137				03/07/16 07:05	03/08/16 01:38	1
2-Fluorobiphenyl	97		25 - 119				03/07/16 07:05	03/08/16 01:38	1
2-Fluorophenol	86		25 - 110				03/07/16 07:05	03/08/16 01:38	1
Nitrobenzene-d5	90		25 - 115				03/07/16 07:05	03/08/16 01:38	1
Phenol-d5	73		31 - 110				03/07/16 07:05	03/08/16 01:38	1
Terphenyl-d14	119		36 - 134				03/07/16 07:05	03/08/16 01:38	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 21:52	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:35	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:35	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 08:27	03/09/16 21:52	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 21:52	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:35	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:35	1
<b>Zinc</b>	<b>0.97</b>	<b>B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:35	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		03/08/16 14:49	03/09/16 15:18	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Chromium</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Iron</b>	<b>9.3</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Manganese</b>	<b>0.086</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:18	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:18	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: R25-1(0-1)-030416D**

**Lab Sample ID: 500-108387-12**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 86.8**

**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		03/08/16 14:49	03/09/16 15:18	1
<b>Zinc</b>	<b>0.17</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:18	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	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Arsenic</b>	<b>1.1</b>		0.53	0.24	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Barium</b>	<b>21</b>		0.53	0.097	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Beryllium</b>	<b>0.11</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Cadmium</b>	<b>0.084</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Calcium</b>	<b>1100</b>		11	3.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Chromium</b>	<b>5.4</b>	<b>B</b>	0.53	0.091	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Cobalt</b>	<b>0.95</b>		0.26	0.060	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Copper</b>	<b>1.7</b>		0.53	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Iron</b>	<b>2600</b>		11	4.1	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Lead</b>	<b>5.8</b>		0.26	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Magnesium</b>	<b>540</b>		5.3	2.1	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Manganese</b>	<b>33</b>		0.53	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Nickel</b>	<b>2.9</b>		0.53	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Potassium</b>	<b>170</b>		26	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Selenium</b>	<b>0.73</b>		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Sodium</b>	<b>760</b>		53	7.0	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Vanadium</b>	<b>7.5</b>		0.26	0.077	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	1
<b>Zinc</b>	<b>13</b>		1.1	0.34	mg/Kg	☼	03/05/16 12:37	03/07/16 15:37	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		03/07/16 15:00	03/10/16 17:20	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		03/08/16 19:15	03/10/16 18:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>32</b>		19	9.9	ug/Kg	☼	03/07/16 19:00	03/10/16 19:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.53</b>		0.200	0.200	SU			03/07/16 17:10	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#


## Chain of Custody Record

Lab Job #: 500-108387

Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHU</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHU</u>	Date <u>03/04/16</u>	Time <u>1650</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: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter									
Project Location/State		Lab PM											
Sampler													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix							Comments
11		R25-1(0-1)-030416	3-4-16	1120	2 S		VOCs	SVOCs	Total Metals	TCU/SPR Metals	PH		
12		R25-1(0-1)-030416D		1120									
13		SR-8(0-1)-030416		1135									
14		AL23-1(0-1)-030416		1145									
15		AL23-2(0-1)-030416		1200									
16		AL23-3(0-1)-030416		1210									
17		AL23-4(0-1)-030416		1220									
18		WL21-1(0-1)-030416		1255									
19		WL21-2(0-1)-030416		1305									
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X		

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z...</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>TOR</u>	Company <u>TA-CHE</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHE  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

22900 block of W. IL 113, (ISGS Site No. 2948-26)

City: Custer Park State: IL Zip Code: \_\_\_\_\_

County: Will Township: \_\_\_\_\_

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261303333 Longitude: -88.162383278

(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: FAU 327: Illinois Route 113

Latitude: 41.261303333 Longitude: -88.162383278

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 WL26-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-26. SEE FIGURE 3-5 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: 500-108387-1.  
ALSO SEE FIGURE 4-5 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:

5 May 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-26**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

<b>Field Sample ID</b>	WL26-1(0-1)-030416	<b>Soil Reference Concentrations</b>
<b>Sample Date</b>	3/4/2016	
<b>Location ID</b>	WL26-1	
<b>Depth</b>	0 - 1	
<b>Location Code</b>	2948-26	
<b>Parameter</b>		
Laboratory pH	7.84	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	5.8 J	900 / 1100 / 1800
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.2 J	11.3 / 13
Barium, Total	9.7 J	1500
Beryllium, Total	0.14 J	22
Cadmium, Total	0.097 J	5.2
Calcium, Total	9400 J	---
Chromium, Total	4.5 J	21
Iron, Total	4300 J	15000 / 15900
Lead, Total	12 J	107
Manganese, Total	72 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	3.3	100
Potassium, Total	170 J	---
Selenium, Total	0.27 J	1.3
Silver, Total	ND	4.4
Zinc, Total	14	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.11 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.58	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.054 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	ND	0.1
Iron, SPLP	2 J	5
Lead, SPLP	0.009	0.0075
Manganese, SPLP	0.036	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.11 J	5



**Summary Table of ISGS Site No. 2948-26**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL26-1(0-1)-030416**

**Lab Sample ID: 500-108387-10**

**Date Collected: 03/04/16 11:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 18:28	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/05/16 18:28	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/05/16 18:28	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/05/16 18:28	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/05/16 18:28	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/05/16 18:28	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
Chloroethane	<5.6 *		5.6	2.4	ug/Kg	☼		03/05/16 18:28	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/05/16 18:28	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/05/16 18:28	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/05/16 18:28	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/05/16 18:28	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/05/16 18:28	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/05/16 18:28	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/05/16 18:28	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/05/16 18:28	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/05/16 18:28	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/05/16 18:28	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/05/16 18:28	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/05/16 18:28	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/05/16 18:28	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/05/16 18:28	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.90	ug/Kg	☼		03/05/16 18:28	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/05/16 18:28	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/05/16 18:28	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/05/16 18:28	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/05/16 18:28	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/05/16 18:28	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/05/16 18:28	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/05/16 18:28	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/05/16 18:28	1
Dibromofluoromethane	103		75 - 120		03/05/16 18:28	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		03/05/16 18:28	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 18:28	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL26-1(0-1)-030416**

**Lab Sample ID: 500-108387-10**

**Date Collected: 03/04/16 11:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Bromophenyl phenyl ether	<190 *		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
<b>Benzo[a]anthracene</b>	<b>5.8 J</b>		37	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Benzo[a]pyrene	<37 *		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Benzo[b]fluoranthene	<37 *		37	8.0	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
<b>Chrysene</b>	<b>13 J</b>		37	10	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
<b>Fluoranthene</b>	<b>12 J</b>		37	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Hexachlorobenzene	<75 *		75	8.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL26-1(0-1)-030416**

**Lab Sample ID: 500-108387-10**

**Date Collected: 03/04/16 11:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
<b>Phenanthrene</b>	<b>26</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1
<b>Pyrene</b>	<b>25</b>	<b>J</b>	37	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	111		35 - 137	03/07/16 07:05	03/08/16 07:56	1
2-Fluorobiphenyl	94		25 - 119	03/07/16 07:05	03/08/16 07:56	1
2-Fluorophenol	80		25 - 110	03/07/16 07:05	03/08/16 07:56	1
Nitrobenzene-d5	87		25 - 115	03/07/16 07:05	03/08/16 07:56	1
Phenol-d5	72		31 - 110	03/07/16 07:05	03/08/16 07:56	1
Terphenyl-d14	196	X	36 - 134	03/07/16 07:05	03/08/16 07:56	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 21:23	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 22:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 22:06	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 22:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
<b>Copper</b>	<b>0.017</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 22:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 21:23	1
<b>Manganese</b>	<b>0.58</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 22:06	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 22:06	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 22:06	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		03/08/16 14:49	03/09/16 15:05	1
<b>Barium</b>	<b>0.054</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 15:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 15:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 15:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:05	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:05	1
<b>Iron</b>	<b>2.0</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 15:05	1
<b>Lead</b>	<b>0.0090</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 15:05	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 15:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 15:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: WL26-1(0-1)-030416**

**Lab Sample ID: 500-108387-10**

**Date Collected: 03/04/16 11:00**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 88.7**

**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		03/08/16 14:49	03/09/16 15:05	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 15:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Arsenic</b>	<b>1.2</b>		0.52	0.24	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Barium</b>	<b>9.7</b>		0.52	0.095	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Cadmium</b>	<b>0.097</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Calcium</b>	<b>9400</b>		10	3.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Chromium</b>	<b>4.5</b>	<b>B</b>	0.52	0.089	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Cobalt</b>	<b>1.5</b>		0.26	0.058	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Copper</b>	<b>2.2</b>		0.52	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Iron</b>	<b>4300</b>		10	4.0	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Lead</b>	<b>12</b>		0.26	0.13	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Magnesium</b>	<b>6000</b>		5.2	2.1	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Manganese</b>	<b>72</b>		0.52	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Nickel</b>	<b>3.3</b>		0.52	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Potassium</b>	<b>170</b>		26	4.2	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Selenium</b>	<b>0.27</b>	<b>J</b>	0.52	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Sodium</b>	<b>350</b>		52	6.8	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Vanadium</b>	<b>8.5</b>		0.26	0.075	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1
<b>Zinc</b>	<b>14</b>		1.0	0.33	mg/Kg	☼	03/05/16 12:37	03/07/16 15:28	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 17:16	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		03/08/16 19:15	03/10/16 18:11	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.7	ug/Kg	☼	03/07/16 19:00	03/10/16 19:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.84</b>		0.200	0.200	SU			03/07/16 17:03	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108387


Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Project Location/State		Lab Project #		Lab PM													
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>															
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>															<u>Sample time 0840</u>
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>															
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>															
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>															
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>															
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>															
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>															
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

Preservative Key  
1. HCL, Cool to 4°  
2. H2SO4, Cool to 4°  
Cool to 4°  
Cool to 4°  
n, Cool to 4°  
4°



500-108387 COC

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-UW</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-UW</u>	Date <u>03/04/16</u>	Time <u>1650</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: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCU/SPC Metals	PH
11		R25-1(0-1)-030416	3-4-16	1120	2 S		X	X	X	X	X
12		R25-1(0-1)-030416D		1120							
13		SR-8(0-1)-030416		1135							
14		AL23-1(0-1)-030416		1145							
15		AL23-2(0-1)-030416		1200							
16		AL23-3(0-1)-030416		1210							
17		AL23-4(0-1)-030416		1220							
18		WL21-1(0-1)-030416		1255							
19		WL21-2(0-1)-030416		1305							
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z...</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>TOR</u>	Company <u>TA-CHE</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHE  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22700 block of W. IL 113, (ISGS Site No. 2948-28)

City: Custer Park State: IL Zip Code: \_\_\_\_\_

County: Will Township: \_\_\_\_\_

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261232773 Longitude: -88.159525218  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261232773 Longitude: -88.159525218

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 GL28-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-28. SEE FIGURE 3-5 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: 500-108387-1.  
ALSO SEE FIGURE 4-5 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.

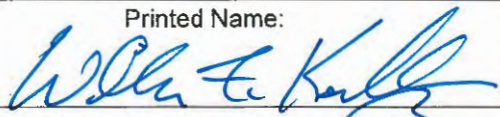
Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-28**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	GL28-1(0-1)-030416	<b>Soil Reference Concentrations</b>
Sample Date	3/4/2016	
Location ID	GL28-1	
Depth	0 - 1	
Location Code	2948-28	
<b>Parameter</b>		
Laboratory pH	7.9	<6.25,>9.0
<b>VOCs (ug/kg)</b>		
Acetone	58	25000
Methyl ethyl ketone	11	---
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	7.3 J	900 / 1100 / 1800
Benzo(b)fluoranthene	24 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	2.7 J	11.3 / 13
Barium, Total	19 J	1500
Beryllium, Total	0.2 J	22
Cadmium, Total	0.071 J	5.2
Calcium, Total	3600 J	---
Chromium, Total	6.3 J	21
Iron, Total	5700 J	15000 / 15900
Lead, Total	6.6 J	107
Manganese, Total	43 J	630 / 636
Mercury, Total	0.016 J	0.89
Nickel, Total	4.1	100
Potassium, Total	220 J	---
Selenium, Total	0.38 J	1.3
Silver, Total	ND	4.4
Zinc, Total	19	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.14 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.57	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.61	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.91 B	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.11 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.01 J	0.1
Iron, SPLP	7.3 J	5
Lead, SPLP	ND	0.0075
Manganese, SPLP	0.14	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.43 J	5

**Summary Table of ISGS Site No. 2948-28**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL28-1(0-1)-030416**

**Lab Sample ID: 500-108387-7**

**Date Collected: 03/04/16 09:30**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.0**

## Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>58</b>		24	4.6	ug/Kg	☼		03/05/16 17:12	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 17:12	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/05/16 17:12	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 17:12	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 17:12	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 17:12	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 17:12	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
Chloroethane	<5.9 *		5.9	2.5	ug/Kg	☼		03/05/16 17:12	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 17:12	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 17:12	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 17:12	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 17:12	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 17:12	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/05/16 17:12	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 17:12	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 17:12	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 17:12	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 17:12	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 17:12	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/05/16 17:12	1
<b>Methyl Ethyl Ketone</b>	<b>11</b>		5.9	2.1	ug/Kg	☼		03/05/16 17:12	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 17:12	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/05/16 17:12	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 17:12	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/05/16 17:12	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 17:12	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 17:12	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 17:12	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 17:12	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 17:12	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		03/05/16 17:12	1
Dibromofluoromethane	104		75 - 120		03/05/16 17:12	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/05/16 17:12	1
Toluene-d8 (Surr)	105		75 - 122		03/05/16 17:12	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	☼	03/07/16 07:05	03/08/16 05:41	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL28-1(0-1)-030416**

**Lab Sample ID: 500-108387-7**

**Date Collected: 03/04/16 09:30**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Bromophenyl phenyl ether	<190 *		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Benzo[a]anthracene</b>	<b>7.3 J</b>		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Benzo[b]fluoranthene</b>	<b>24 J</b>		38	8.2	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Chrysene</b>	<b>11 J</b>		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Fluoranthene</b>	<b>12 J</b>		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Hexachlorobenzene	<76 *		76	8.8	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL28-1(0-1)-030416**

**Lab Sample ID: 500-108387-7**

**Date Collected: 03/04/16 09:30**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Phenanthrene</b>	<b>13</b>	<b>J</b>	38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
Phenol	<190		190	84	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1
<b>Pyrene</b>	<b>15</b>	<b>J</b>	38	7.5	ug/Kg	☼	03/07/16 07:05	03/08/16 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	123		35 - 137	03/07/16 07:05	03/08/16 05:41	1
2-Fluorobiphenyl	92		25 - 119	03/07/16 07:05	03/08/16 05:41	1
2-Fluorophenol	85		25 - 110	03/07/16 07:05	03/08/16 05:41	1
Nitrobenzene-d5	86		25 - 115	03/07/16 07:05	03/08/16 05:41	1
Phenol-d5	62		31 - 110	03/07/16 07:05	03/08/16 05:41	1
Terphenyl-d14	150	X	36 - 134	03/07/16 07:05	03/08/16 05:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 08:27	03/09/16 20:36	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 21:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 21:25	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 21:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
<b>Copper</b>	<b>0.018</b>	<b>J ^</b>	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
<b>Iron</b>	<b>0.57</b>		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 21:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 20:36	1
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 21:25	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:25	1
<b>Zinc</b>	<b>0.91</b>	<b>B</b>	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 21:25	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		03/08/16 14:49	03/09/16 14:45	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 14:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 14:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 14:45	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:45	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:45	1
<b>Iron</b>	<b>7.3</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 14:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 14:45	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 14:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL28-1(0-1)-030416**

**Lab Sample ID: 500-108387-7**

**Date Collected: 03/04/16 09:30**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 85.0**

**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		03/08/16 14:49	03/09/16 14:45	1
<b>Zinc</b>	<b>0.43</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 14:45	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	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Arsenic</b>	<b>2.7</b>		0.56	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Barium</b>	<b>19</b>		0.56	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Beryllium</b>	<b>0.20</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Cadmium</b>	<b>0.071</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Calcium</b>	<b>3600</b>		11	3.6	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Chromium</b>	<b>6.3</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Cobalt</b>	<b>1.9</b>		0.28	0.063	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Copper</b>	<b>3.2</b>		0.56	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Iron</b>	<b>5700</b>		11	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Lead</b>	<b>6.6</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Magnesium</b>	<b>2200</b>		5.6	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Manganese</b>	<b>43</b>		0.56	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Nickel</b>	<b>4.1</b>		0.56	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Potassium</b>	<b>220</b>		28	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.56	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Sodium</b>	<b>740</b>		56	7.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Vanadium</b>	<b>10</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	1
<b>Zinc</b>	<b>19</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 15:07	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		03/07/16 15:00	03/10/16 17:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J</b>	17	9.0	ug/Kg	☼	03/07/16 19:00	03/10/16 19:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.90</b>		0.200	0.200	SU			03/07/16 16:52	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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. Babusulkumar  
Company: Weston  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail:

Bill To (optional)  
Contact:  
Company:  
Address:  
Address: Same  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108387


Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Project Location/State		Lab Project #		Lab PM													
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>															
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>															<u>Sample time 0840</u>
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>															
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>															
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>															
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>															
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>															
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>															
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

Preservative Key  
 1. HCL, Cool to 4°  
 2. H2SO4, Cool to 4°  
 Cool to 4°  
 Cool to 4°  
 n, Cool to 4°  
 4°



500-108387 COC

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHI</u>	Date <u>03/04/16</u>	Time <u>1650</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: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative		Parameter		Comments	
<u>Weston</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix			
<u>IDOT-040</u>									
Project Location/State		Lab PM							
<u>Broadwood &amp; Center Park/IL</u>		<u>D. Wright</u>							
Sampler									
<u>T. Walls</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
							<u>NOCs</u>	<u>SNOCs</u>	<u>Total Metals</u>
									<u>TCU/SPB Metals</u>
									<u>PH</u>
<u>11</u>		<u>R25-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1120</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R25-1(0-1)-030416D</u>		<u>1120</u>					
<u>13</u>		<u>SR-8(0-1)-030416</u>		<u>1135</u>					
<u>14</u>		<u>AL23-1(0-1)-030416</u>		<u>1145</u>					
<u>15</u>		<u>AL23-2(0-1)-030416</u>		<u>1200</u>					
<u>16</u>		<u>AL23-3(0-1)-030416</u>		<u>1210</u>					
<u>17</u>		<u>AL23-4(0-1)-030416</u>		<u>1220</u>					
<u>18</u>		<u>WL21-1(0-1)-030416</u>		<u>1255</u>					
<u>19</u>		<u>WL21-2(0-1)-030416</u>		<u>1305</u>					
<u>20</u>		<u>AL19-2(0-1)-030416</u>	<u>3-4-16</u>	<u>1310</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CME  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22700 block of W. IL 113, (ISGS Site No. 2948-29)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261348606 Longitude: -88.159406597  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.



Project Name: FAU 327: Illinois Route 113

Latitude: 41.261348606 Longitude: -88.159406597

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 GL29-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-29. SEE FIGURE 3-5 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: 500-108387-1.  
ALSO SEE FIGURE 4-5 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:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-29**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	GL29-1(0-1)-030416	<b>Soil Reference Concentrations</b>
Sample Date	3/4/2016	
Location ID	GL29-1	
Depth	0 - 1	
Location Code	2948-29	
<b>Parameter</b>		
Laboratory pH	8.71	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	110	900 / 1100 / 1800
Benzo(a)pyrene	110 J	90 / 1300 / 2100
Benzo(b)fluoranthene	180 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	61 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	4.3 J	11.3 / 13
Barium, Total	53 J	1500
Beryllium, Total	0.67	22
Cadmium, Total	0.22	5.2
Calcium, Total	20000 J	---
Chromium, Total	7.8 J	21
Iron, Total	10000 J	15000 / 15900
Lead, Total	10 J	107
Manganese, Total	260 J	630 / 636
Mercury, Total	0.038 J	0.89
Nickel, Total	6.8	100
Potassium, Total	460 J	---
Selenium, Total	0.74	1.3
Silver, Total	ND	4.4
Zinc, Total	36	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.25 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	3.2	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.13 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.014 J	0.1
Iron, SPLP	13 J	5
Lead, SPLP	0.014	0.0075
Manganese, SPLP	0.46	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.1 J	5

**Summary Table of ISGS Site No. 2948-29**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108387-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/14/2016 3:22:09 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL29-1(0-1)-030416**

**Lab Sample ID: 500-108387-8**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 82.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/05/16 17:37	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/05/16 17:37	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/05/16 17:37	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 17:37	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 17:37	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/05/16 17:37	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
Chloroethane	<6.0 *		6.0	2.5	ug/Kg	☼		03/05/16 17:37	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/05/16 17:37	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/05/16 17:37	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/05/16 17:37	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/05/16 17:37	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/05/16 17:37	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/05/16 17:37	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/05/16 17:37	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/05/16 17:37	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/05/16 17:37	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/05/16 17:37	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/05/16 17:37	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/05/16 17:37	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/05/16 17:37	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/05/16 17:37	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/05/16 17:37	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/05/16 17:37	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/05/16 17:37	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/05/16 17:37	1
Dibromofluoromethane	103		75 - 120		03/05/16 17:37	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/05/16 17:37	1
Toluene-d8 (Surr)	107		75 - 122		03/05/16 17:37	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	☼	03/07/16 07:05	03/08/16 06:08	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL29-1(0-1)-030416**

**Lab Sample ID: 500-108387-8**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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	87	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Bromophenyl phenyl ether	<190 *		190	51	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Acenaphthene</b>	<b>14 J</b>		38	6.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Anthracene</b>	<b>42</b>		38	6.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Benzo[a]anthracene</b>	<b>110</b>		38	5.2	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Benzo[a]pyrene</b>	<b>110 *</b>		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Benzo[b]fluoranthene</b>	<b>180 *</b>		38	8.3	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Benzo[k]fluoranthene</b>	<b>62 *</b>		38	11	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Chrysene</b>	<b>130</b>		38	10	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Fluoranthene</b>	<b>270</b>		38	7.1	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Fluorene</b>	<b>8.3 J</b>		38	5.4	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Hexachlorobenzene	<77 *		77	8.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL29-1(0-1)-030416**

**Lab Sample ID: 500-108387-8**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**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>61</b>	*	38	9.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Phenanthrene</b>	<b>180</b>		38	5.3	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
<b>Pyrene</b>	<b>360</b>		38	7.6	ug/Kg	☼	03/07/16 07:05	03/08/16 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	121		35 - 137				03/07/16 07:05	03/08/16 06:08	1
2-Fluorobiphenyl	98		25 - 119				03/07/16 07:05	03/08/16 06:08	1
2-Fluorophenol	83		25 - 110				03/07/16 07:05	03/08/16 06:08	1
Nitrobenzene-d5	87		25 - 115				03/07/16 07:05	03/08/16 06:08	1
Phenol-d5	73		31 - 110				03/07/16 07:05	03/08/16 06:08	1
Terphenyl-d14	191	X	36 - 134				03/07/16 07:05	03/08/16 06:08	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		03/08/16 08:27	03/09/16 20:42	1
<b>Barium</b>	<b>0.25</b>	J	0.50	0.050	mg/L		03/08/16 08:27	03/08/16 21:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 08:27	03/08/16 21:32	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/08/16 08:27	03/08/16 21:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
<b>Copper</b>	<b>0.014</b>	J ^	0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 08:27	03/08/16 21:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 08:27	03/09/16 20:42	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 08:27	03/08/16 21:32	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 08:27	03/08/16 21:32	1
<b>Zinc</b>	<b>0.049</b>	J B	0.50	0.020	mg/L		03/08/16 08:27	03/08/16 21:32	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Barium</b>	<b>0.13</b>	J	0.50	0.050	mg/L		03/08/16 14:49	03/09/16 14:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:49	03/09/16 14:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Chromium</b>	<b>0.014</b>	J	0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Iron</b>	<b>13</b>		0.40	0.20	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		03/08/16 14:49	03/09/16 14:52	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:49	03/09/16 14:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:49	03/09/16 14:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

**Client Sample ID: GL29-1(0-1)-030416**

**Lab Sample ID: 500-108387-8**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 16:50**

**Percent Solids: 82.9**

**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		03/08/16 14:49	03/09/16 14:52	1
<b>Zinc</b>	<b>0.10</b>	<b>J</b>	0.50	0.020	mg/L		03/08/16 14:49	03/09/16 14:52	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	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Arsenic</b>	<b>4.3</b>		0.56	0.26	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Barium</b>	<b>53</b>		0.56	0.10	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Beryllium</b>	<b>0.67</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Cadmium</b>	<b>0.22</b>		0.11	0.032	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Calcium</b>	<b>20000</b>		11	3.6	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Chromium</b>	<b>7.8</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Cobalt</b>	<b>3.0</b>		0.28	0.063	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Copper</b>	<b>6.7</b>		0.56	0.12	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Iron</b>	<b>10000</b>		11	4.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Lead</b>	<b>10</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Magnesium</b>	<b>9300</b>		5.6	2.3	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Manganese</b>	<b>260</b>		0.56	0.11	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Nickel</b>	<b>6.8</b>		0.56	0.15	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Potassium</b>	<b>460</b>		28	4.5	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Selenium</b>	<b>0.74</b>		0.56	0.28	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Sodium</b>	<b>740</b>		56	7.4	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Vanadium</b>	<b>13</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1
<b>Zinc</b>	<b>36</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:37	03/07/16 15:11	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/07/16 15:00	03/10/16 17:12	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		03/08/16 19:15	03/10/16 18:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>38</b>		17	9.2	ug/Kg	☼	03/07/16 19:00	03/10/16 19:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.71</b>		0.200	0.200	SU			03/07/16 16:56	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108387-1

## 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
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) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusulkumar Contact: \_\_\_\_\_  
 Company: Weston Company: \_\_\_\_\_  
 Address: 300 Plaza Circle, Ste 202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: Same  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
 Chain of Custody Number: \_\_\_\_\_  
 Page 1 of 4  
 Temperature °C of Cooler: 48.5.3

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Project Location/State		Lab Project #		Lab PM		Preservative Key		500-108387 COC	
<u>IoT-040</u>		<u>Braidwood/Creeper Park/IL</u>				<u>D. Wright</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4° n, Cool to 4° 4°		 500-108387 COC	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCs	Total Metals	TCU/SPU Metals	AH
<u>1</u>		<u>SR-2(0-1)-030416</u>	<u>3-4-16</u>	<u>0825</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>SR-3(0-1)-030416</u>		<u>0835</u>							
<u>3</u>		<u>SR-4(0-1)-030416</u>		<u>0840</u>							
<u>4</u>		<u>SR-5(0-1)-030416</u>		<u>0855</u>							
<u>5</u>		<u>SR-6(0-1)-030416</u>		<u>0905</u>							
<u>6</u>		<u>SR-7(0-1)-030416</u>		<u>0920</u>							
<u>7</u>		<u>GL28-1(0-1)-030416</u>		<u>0930</u>							
<u>8</u>		<u>GL29-1(0-1)-030416</u>		<u>1035</u>							
<u>9</u>		<u>R27-1(0-1)-030416</u>		<u>1045</u>							
<u>10</u>		<u>WL26-1(0-1)-030416</u>	<u>3-4-16</u>	<u>1100</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days quoted 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1335</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1335</u>	Lab Courier <u>TA-CHU</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1658</u>	Received By <u>[Signature]</u>	Company <u>TA-CHU</u>	Date <u>03/04/16</u>	Time <u>1650</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: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sevier  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108387  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: 4.8, 5.3

Client		Client Project #		Preservative		Parameter		Comments			
<u>Weston</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		# of Containers		Matrix					
<u>IDOT-040</u>											
Project Location/State		Lab PM									
<u>Broadwood &amp; Carter Park/IL</u>		<u>D. Wright</u>									
Sampler		Date		Time		Total Metals		TCLP/SP4 Metals			
<u>T. Walls</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SP4 Metals	PH
11		R25-1(0-1)-030416	3-4-16	1120	2 S		X	X	X	X	X
12		R25-1(0-1)-030416D		1120							
13		SR-8(0-1)-030416		1135							
14		AL23-1(0-1)-030416		1145							
15		AL23-2(0-1)-030416		1200							
16		AL23-3(0-1)-030416		1210							
17		AL23-4(0-1)-030416		1220							
18		WL21-1(0-1)-030416		1255							
19		WL21-2(0-1)-030416		1305							
20		AL19-2(0-1)-030416	3-4-16	1310	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Standard Other \_\_\_\_\_

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Z. Williams</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1535</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>3/4/16</u>	Time <u>15:35</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CME</u>	Date <u>03/04/16</u>	Time <u>16:50</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CME  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22716 W. IL 113, (ISGS Site No. 2948-30)

City: Custer Park State: IL Zip Code: \_\_\_\_\_

County: Will Township: \_\_\_\_\_

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261366475 Longitude: -88.158214115  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261366475 Longitude: -88.158214115

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 F30-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-30. SEE FIGURE 3-5 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: 500-108762-1.  
ALSO SEE FIGURE 4-5 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))***

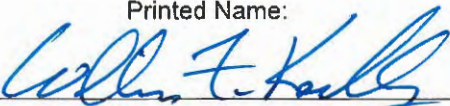
Company Name: Weston Solutions, Inc.

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:

5 MAY 2016  
Date:



**Summary Table of ISGS Site No. 2948-30**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F30-1(0-1)-031416	<b>Soil Reference Concentrations</b>
Sample Date	3/14/2016	
Location ID	F30-1	
Depth	0 - 1	
Location Code	2948-30	
Parameter		
Laboratory pH	8.28	<6.25,>9.0
<b>VOCs (ug/kg)</b>		
Acetone	50	25000
Methyl ethyl ketone	9.1	---
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	53	900 / 1100 / 1800
Benzo(a)pyrene	67	90 / 1300 / 2100
Benzo(b)fluoranthene	110	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	29 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	3.4 J-	11.3 / 13
Barium, Total	46 J-	1500
Beryllium, Total	0.55 J-	22
Cadmium, Total	0.16 J-	5.2
Calcium, Total	14000 J-	---
Chromium, Total	7	21
Iron, Total	8600 J+	15000 / 15900
Lead, Total	17	107
Manganese, Total	190 J-	630 / 636
Mercury, Total	0.022 J	0.89
Nickel, Total	5.8	100
Potassium, Total	330 J+	---
Selenium, Total	0.73 J-	1.3
Silver, Total	ND	4.4
Zinc, Total	25 J+	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.35 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	3.9 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.048 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.1 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.018 J	0.1
Iron, SPLP	15	5
Lead, SPLP	0.036	0.0075
Manganese, SPLP	0.23	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-30**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: F30-1(0-1)-031416**

**Lab Sample ID: 500-108762-17**

**Date Collected: 03/14/16 16:30**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 80.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>50</b>		25	4.8	ug/Kg	☼		03/16/16 17:45	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/16/16 17:45	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/16/16 17:45	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/16/16 17:45	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/16/16 17:45	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/16/16 17:45	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/16/16 17:45	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/16/16 17:45	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/16/16 17:45	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/16/16 17:45	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/16/16 17:45	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/16/16 17:45	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/16/16 17:45	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/16/16 17:45	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/16/16 17:45	1
<b>Methyl Ethyl Ketone</b>	<b>9.1</b>		6.2	2.2	ug/Kg	☼		03/16/16 17:45	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/16/16 17:45	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/16/16 17:45	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/16/16 17:45	1
Toluene	<6.2		6.2	2.1	ug/Kg	☼		03/16/16 17:45	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/16/16 17:45	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/16/16 17:45	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/16/16 17:45	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/16/16 17:45	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/16/16 17:45	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/16/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 17:45	1
Dibromofluoromethane	103		75 - 120		03/16/16 17:45	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 17:45	1
Toluene-d8 (Surr)	112		75 - 122		03/16/16 17:45	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	☼	03/17/16 07:00	03/28/16 11:48	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: F30-1(0-1)-031416**

**Lab Sample ID: 500-108762-17**

**Date Collected: 03/14/16 16:30**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 80.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Acenaphthylene</b>	<b>11</b>	<b>J</b>	40	5.3	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Anthracene</b>	<b>8.9</b>	<b>J</b>	40	6.7	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Benzo[a]anthracene</b>	<b>53</b>		40	5.4	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Benzo[a]pyrene</b>	<b>67</b>		40	7.8	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		40	8.7	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Benzo[g,h,i]perylene</b>	<b>35</b>	<b>J</b>	40	13	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Benzo[k]fluoranthene</b>	<b>43</b>		40	12	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Carbazole	<200		200	100	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Chrysene</b>	<b>70</b>		40	11	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Fluoranthene</b>	<b>72</b>		40	7.4	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: F30-1(0-1)-031416**

**Lab Sample ID: 500-108762-17**

**Date Collected: 03/14/16 16:30**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 80.9**

**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>29</b>	<b>J</b>	40	10	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Isophorone	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Phenanthrene</b>	<b>70</b>		40	5.6	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
Phenol	<200		200	89	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	1
<b>Pyrene</b>	<b>100</b>		40	8.0	ug/Kg	☼	03/17/16 07:00	03/28/16 11:48	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	46		35 - 137				03/17/16 07:00	03/28/16 11:48	1
2-Fluorobiphenyl	88		25 - 119				03/17/16 07:00	03/28/16 11:48	1
2-Fluorophenol	87		25 - 110				03/17/16 07:00	03/28/16 11:48	1
Nitrobenzene-d5	74		25 - 115				03/17/16 07:00	03/28/16 11:48	1
Phenol-d5	78		31 - 110				03/17/16 07:00	03/28/16 11:48	1
Terphenyl-d14	139	X	36 - 134				03/17/16 07:00	03/28/16 11:48	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/25/16 00:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/25/16 00:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/25/16 00:21	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/25/16 00:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/25/16 00:21	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/25/16 00:21	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:21	1
<b>Zinc</b>	<b>0.048</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/25/16 00:21	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:58	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:40	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:40	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:58	1
<b>Iron</b>	<b>15</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:58	1
<b>Lead</b>	<b>0.036</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:40	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: F30-1(0-1)-031416**

**Lab Sample ID: 500-108762-17**

**Date Collected: 03/14/16 16:30**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 80.9**

**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		03/23/16 14:51	03/25/16 03:58	1
<b>Zinc</b>	<b>0.13</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:58	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	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Arsenic</b>	<b>3.4</b>		0.53	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Barium</b>	<b>46</b>		0.53	0.097	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Beryllium</b>	<b>0.55</b>		0.21	0.046	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.031	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Calcium</b>	<b>14000</b>		11	3.4	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Chromium</b>	<b>7.0</b>		0.53	0.091	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Cobalt</b>	<b>2.3</b>		0.26	0.060	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Copper</b>	<b>5.7</b>		0.53	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Iron</b>	<b>8600</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Lead</b>	<b>17</b>		0.26	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Magnesium</b>	<b>5300</b>		5.3	2.1	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Manganese</b>	<b>190</b>	<b>B</b>	0.53	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 13:44	1
<b>Nickel</b>	<b>5.8</b>		0.53	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Potassium</b>	<b>330</b>		26	4.3	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Selenium</b>	<b>0.73</b>		0.53	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Sodium</b>	<b>810</b>		53	7.0	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Vanadium</b>	<b>14</b>		0.26	0.077	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1
<b>Zinc</b>	<b>25</b>		1.1	0.33	mg/Kg	☼	03/18/16 09:23	03/24/16 03:05	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 19:02	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		03/23/16 17:00	03/24/16 12:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		18	9.6	ug/Kg	☼	03/21/16 15:30	03/23/16 00:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.28</b>		0.200	0.200	SU			03/17/16 16:15	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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 6041  
Phone: 708.534.5200 Fax: 708.534.5



500-108762 COC

Report To (optional)  
Contact: S. Babusalkumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sam  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762

Chain of Custody Number: \_\_\_\_\_

Page 3 of 4

Temperature °C of Cooler: 2.3 2.8 3.0 3.5 3/15/16

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix												Comments	
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Branch of West Park / IL</u>		<u>D. Wright</u>																	
Sampler		Sampling																	
<u>T. Walls</u>		Date		Time															
<u>1</u>		<u>R45-3(0-1)-031416</u>	<u>3-14-16</u>	<u>1400</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>R45-4(0-1)-031416</u>		<u>1405</u>															
<u>3</u>		<u>R45-5(0-1)-031416</u>		<u>1420</u>															
<u>4</u>		<u>R43-4(0-1)-031416</u>		<u>1425</u>															
<u>5</u>		<u>R43-5(0-1)-031416</u>		<u>1435</u>															
<u>6</u>		<u>R43-6(0-1)-031416</u>		<u>1445</u>															
<u>7</u>		<u>R43-7(0-1)-031416</u>		<u>1455</u>															
<u>8</u>		<u>R39-2(0-1)-031416</u>		<u>1510</u>															
<u>9</u>		<u>R39-3(0-1)-031416</u>		<u>1525</u>															
<u>10</u>		<u>R39-3(0-1)-031416D</u>	<u>3-14-16</u>	<u>1525</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley</u>	Company <u>TA-CRT</u>	Date <u>3/15/16</u>	Time <u>0725</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:



# 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. Babuszekumar  
Company: Worston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Worston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH	Comments					
<u>IDOT-040</u>				Date	Time									Comments					
Project Location/State		Lab PM																	
<u>Bradwood &amp; Galev R/W / IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH	Comments					
<u>11</u>		<u>R39-4(0-1)-031416</u>		<u>3-14-16</u>	<u>1535</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>12</u>		<u>R39-5(0-1)-031416</u>			<u>1545</u>														
<u>13</u>		<u>W037-1(0-1)-031416</u>			<u>1555</u>														
<u>14</u>		<u>AL32-3(0-1)-031416</u>			<u>1605</u>														
<u>15</u>		<u>AL32-4(0-1)-031416</u>			<u>1615</u>														
<u>16</u>		<u>AL32-5(0-1)-031416</u>			<u>1620</u>														
<u>17</u>		<u>F30-1(0-1)-031416</u>		<u>3-14-16</u>	<u>1630</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<del><u>T. Walls 3-14-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Worston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CPT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

22735 W. IL 113, (ISGS Site No. 2948-31)

City: Custer Park State: IL Zip Code: \_\_\_\_\_

County: Will Township: \_\_\_\_\_

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261248935 Longitude: -88.158418834

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261248935 Longitude: -88.158418834

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 R31-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-31. SEE FIGURE 3-5 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: 500-108434-1.  
ALSO SEE FIGURE 4-5 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.

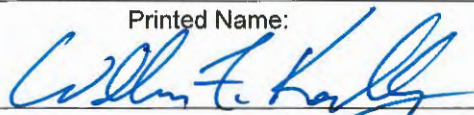
Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-31**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R31-1(0-1)-030716	<b>Soil Reference Concentrations</b>
Sample Date	3/7/2016	
Location ID	R31-1	
Depth	0 - 1	
Location Code	2948-31	
Parameter		
Laboratory pH	7.12	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(b)fluoranthene	50 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	4.5	11.3 / 13
Barium, Total	51	1500
Beryllium, Total	0.47	22
Cadmium, Total	0.27	5.2
Calcium, Total	12000 J	---
Chromium, Total	12 B	21
Iron, Total	10000 J+	15000 / 15900
Lead, Total	29 J	107
Manganese, Total	140 J	630 / 636
Mercury, Total	0.036 J	0.89
Nickel, Total	9.2 B	100
Potassium, Total	480 J+	---
Selenium, Total	0.68	1.3
Silver, Total	ND	4.4
Zinc, Total	59 B	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.25 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.41 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.088 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.018 J	0.1
Iron, SPLP	18	5
Lead, SPLP	0.02	0.0075
Manganese, SPLP	0.08	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.011 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.71	5

**Summary Table of ISGS Site No. 2948-31**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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.*

- 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R31-1(0-1)-030716**

**Lab Sample ID: 500-108434-11**

**Date Collected: 03/07/16 11:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 75.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<26		26	5.1	ug/Kg	☼		03/08/16 16:03	1
Benzene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:03	1
Bromodichloromethane	<6.6		6.6	1.1	ug/Kg	☼		03/08/16 16:03	1
Bromoform	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:03	1
Bromomethane	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:03	1
Carbon disulfide	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:03	1
Carbon tetrachloride	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:03	1
Chlorobenzene	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
Chloroethane	<6.6		6.6	2.8	ug/Kg	☼		03/08/16 16:03	1
Chloroform	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:03	1
Chloromethane	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
cis-1,2-Dichloroethene	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:03	1
cis-1,3-Dichloropropene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:03	1
Dibromochloromethane	<6.6		6.6	0.76	ug/Kg	☼		03/08/16 16:03	1
1,1-Dichloroethane	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:03	1
1,2-Dichloroethane	<6.6		6.6	0.98	ug/Kg	☼		03/08/16 16:03	1
1,1-Dichloroethene	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:03	1
1,2-Dichloropropane	<6.6		6.6	1.7	ug/Kg	☼		03/08/16 16:03	1
1,3-Dichloropropene, Total	<6.6		6.6	1.9	ug/Kg	☼		03/08/16 16:03	1
Ethylbenzene	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
2-Hexanone	<6.6		6.6	2.0	ug/Kg	☼		03/08/16 16:03	1
Methylene Chloride	<6.6		6.6	5.0	ug/Kg	☼		03/08/16 16:03	1
Methyl Ethyl Ketone	<6.6		6.6	2.3	ug/Kg	☼		03/08/16 16:03	1
methyl isobutyl ketone	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:03	1
Methyl tert-butyl ether	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
Styrene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:03	1
1,1,2,2-Tetrachloroethane	<6.6		6.6	1.0	ug/Kg	☼		03/08/16 16:03	1
Tetrachloroethene	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:03	1
Toluene	<6.6		6.6	2.3	ug/Kg	☼		03/08/16 16:03	1
trans-1,2-Dichloroethene	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
trans-1,3-Dichloropropene	<6.6		6.6	1.9	ug/Kg	☼		03/08/16 16:03	1
1,1,1-Trichloroethane	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:03	1
1,1,2-Trichloroethane	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:03	1
Trichloroethene	<6.6		6.6	1.8	ug/Kg	☼		03/08/16 16:03	1
Vinyl chloride	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:03	1
Xylenes, Total	<13		13	2.4	ug/Kg	☼		03/08/16 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/08/16 16:03	1
Dibromofluoromethane	106		75 - 120		03/08/16 16:03	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/08/16 16:03	1
Toluene-d8 (Surr)	107		75 - 122		03/08/16 16:03	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	45	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R31-1(0-1)-030716**

**Lab Sample ID: 500-108434-11**

**Date Collected: 03/07/16 11:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 75.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	95	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,4-Dichlorophenol	<410		410	99	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,4-Dinitrophenol	<840		840	730	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2,6-Dinitrotoluene	<210		210	82	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Chlorophenol	<210		210	71	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Methylnaphthalene	<41		41	7.6	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Methylphenol	<210		210	67	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
2-Nitrophenol	<410		410	98	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
3,3'-Dichlorobenzidine	<210 *		210	58	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4,6-Dinitro-2-methylphenol	<840		840	330	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Bromophenyl phenyl ether	<210		210	55	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Chloroaniline	<840		840	190	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
4-Nitrophenol	<840		840	390	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Acenaphthene	<41		41	7.5	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Acenaphthylene</b>	<b>5.6 J</b>		41	5.5	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Anthracene	<41		41	6.9	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Benzo[a]anthracene	<41 *		41	5.6	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Benzo[a]pyrene	<41 *		41	8.0	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Benzo[b]fluoranthene</b>	<b>50 *</b>		41	9.0	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Benzo[g,h,i]perylene	<41 *		41	13	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Benzo[k]fluoranthene</b>	<b>22 J *</b>		41	12	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Bis(2-ethylhexyl) phthalate	<210 *		210	76	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Butyl benzyl phthalate	<210 *		210	79	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Carbazole	<210		210	100	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Chrysene	<41 *		41	11	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Dibenz(a,h)anthracene	<41 *		41	8.0	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Dibenzofuran	<210		210	49	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Di-n-octyl phthalate	<210		210	68	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Fluoranthene</b>	<b>35 J</b>		41	7.7	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Fluorene	<41		41	5.8	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Hexachlorobenzene	<84		84	9.6	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Hexachlorocyclopentadiene	<840		840	240	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Hexachloroethane	<210		210	63	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R31-1(0-1)-030716**

**Lab Sample ID: 500-108434-11**

**Date Collected: 03/07/16 11:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 75.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<41	*	41	11	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Isophorone	<210		210	47	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Naphthalene	<41		41	6.4	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
N-Nitrosodi-n-propylamine	<84		84	51	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Pentachlorophenol	<840		840	670	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Phenanthrene</b>	<b>41</b>		41	5.8	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
Phenol	<210		210	92	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1
<b>Pyrene</b>	<b>88</b>	*	41	8.2	ug/Kg	☼	03/08/16 16:15	03/12/16 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		35 - 137	03/08/16 16:15	03/12/16 02:56	1
2-Fluorobiphenyl	59		25 - 119	03/08/16 16:15	03/12/16 02:56	1
2-Fluorophenol	66		25 - 110	03/08/16 16:15	03/12/16 02:56	1
Nitrobenzene-d5	55		25 - 115	03/08/16 16:15	03/12/16 02:56	1
Phenol-d5	68		31 - 110	03/08/16 16:15	03/12/16 02:56	1
Terphenyl-d14	160	X *	36 - 134	03/08/16 16:15	03/12/16 02:56	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 15:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 15:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 15:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 15:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 15:55	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 15:55	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 15:55	1
<b>Zinc</b>	<b>0.41</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 15:55	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Barium</b>	<b>0.088</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Iron</b>	<b>18</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Manganese</b>	<b>0.080</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:10	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R31-1(0-1)-030716**

**Lab Sample ID: 500-108434-11**

Date Collected: 03/07/16 11:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 75.9

**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		03/11/16 08:51	03/11/16 23:10	1
<b>Zinc</b>	<b>0.71</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:10	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	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Arsenic</b>	<b>4.5</b>		0.60	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Barium</b>	<b>51</b>		0.60	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Beryllium</b>	<b>0.47</b>		0.24	0.052	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Cadmium</b>	<b>0.27</b>		0.12	0.035	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	12	3.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Chromium</b>	<b>12</b>	<b>B</b>	3.0	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Cobalt</b>	<b>3.3</b>		0.30	0.068	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Copper</b>	<b>9.2</b>		0.60	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Iron</b>	<b>10000</b>		12	4.7	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Lead</b>	<b>29</b>		0.30	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Magnesium</b>	<b>6700</b>		6.0	2.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Manganese</b>	<b>140</b>		0.60	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Nickel</b>	<b>9.2</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Potassium</b>	<b>480</b>		30	4.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Selenium</b>	<b>0.68</b>		0.60	0.30	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Sodium</b>	<b>540</b>		60	8.0	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Vanadium</b>	<b>17</b>		0.30	0.088	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1
<b>Zinc</b>	<b>59</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	03/09/16 15:56	03/10/16 22:23	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 17:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>36</b>		19	10	ug/Kg	☼	03/09/16 14:00	03/11/16 14:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.12</b>		0.200	0.200	SU			03/09/16 15:03	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

Per Manual 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped:

Hand Delivered:

### Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCUP/SPUR METALS	PH		
Project Location/State		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	Comments							
Weston Solutions		02056-04-040-0030		7 7 7 7 7								
IDOT 040-IL Route 113												
Brandwood Dr												
M. Doherty-Skubic		D. Wright										
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	X	
12		AL32-1(0-1)-030716		1203								
13		GL33-1(0-1)-030716		1220								
14		R34-1(0-1)-030716		1230								
15		F36-1(0-1)-030716		1250								
16		F36-1(0-1)-030716 D		1250								
17		AL32-2(0-1)-030716		1305								
18		F40-1(0-1)-030716		1335								
19		F40-2(0-1)-030716		1350								
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

22510 W. IL 113, (ISGS Site No. 2948-32)

City: Custer Park State: IL Zip Code: \_\_\_\_\_

County: Will Township: \_\_\_\_\_

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261412002 Longitude: -88.155648792  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261412002 Longitude: -88.155648792

**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 AL32-1 THROUGH AL32-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-32. SEE FIGURES 3-5/3-6 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: 500-108434-1 AND 500-108762-1. ALSO SEE FIGURES 4-5/4-6 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:

5 May 2016

Date:





**Summary Table of ISGS Site No. 2948-32**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AL32-1(0-1)-030716	AL32-2(0-1)-030716	AL32-3(0-1)-031416	AL32-4(0-1)-031416	AL32-5(0-1)-031416	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	AL32-1	AL32-2	AL32-3	AL32-4	AL32-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-32	2948-32	2948-32	2948-32	2948-32	
<b>Parameter</b>						
Laboratory pH	6.55	8.42	7.82	7.82	8.18	<6.25,>9.0
<b>VOCs (ug/kg)</b>						
Acetone	ND	ND	ND	ND	36	25000
Methyl ethyl ketone	ND	ND	ND	ND	6.2	---
<b>SVOCs (ug/kg)</b>						
Benzo(a)anthracene	ND	93 *	ND	ND	130 *	900 / 1100 / 1800
Benzo(a)pyrene	ND	190 *	ND	ND	170 *	90 / 1300 / 2100
Benzo(b)fluoranthene	10 J	280 *	ND	ND	250 *	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	110 *	ND	ND	100 J+	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	5.2	3.1	1.9 J-	2.9 J-	3.8 J-	11.3 / 13
Barium, Total	56	43	30 J-	65 J-	35 J-	1500
Beryllium, Total	0.59	0.37	0.26 J-	0.7 J-	0.35 J-	22
Cadmium, Total	0.17	0.16	0.12 J-	0.11 J-	0.21 J-	5.2
Calcium, Total	3900 J	25000 J	6700 J-	12000 J-	13000 J-	---
Chromium, Total	12 B	6.8 B	6.1	8.6	6.6	21
Iron, Total	14000 J+	6300 J+	6400 J+	11000 J+	11000 J+	15000 / 15900
Lead, Total	13 J	77 J	14	10	28	107
Manganese, Total	160 J	170 J	180 J-	230 J-	130 J-	630 / 636
Mercury, Total	0.033 J	0.017 J	0.013 J	0.024 J	0.019 J	0.89
Nickel, Total	8.9 B	6.6 B	5	7.5	5.6	100
Potassium, Total	480 J+	390 J+	290 J+	500 J+	290 J+	---
Selenium, Total	0.79	ND	0.3 J	0.67 J-	0.46 J-	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	41 B	33 B	23 J+	34 J+	29 J+	5100
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.18 J	0.26 J	0.2 J	0.3 J	0.26 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Iron, TCLP	0.22 J	ND	ND	ND	ND	5
Lead, TCLP	ND	0.013	ND	ND	ND	0.0075
Manganese, TCLP	1	1.3	1.2 J+	2.7 J+	2.4 J+	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.62	0.66	0.025 J	0.028 J	0.028 J	5
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	0.012 J	ND	ND	ND	0.05
Barium, SPLP	0.14 J	0.24 J	0.16 J	0.11 J	0.15 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.031	0.043	0.027	0.017 J	0.029	0.1
Iron, SPLP	23	29	25	16	31	5
Lead, SPLP	0.016	0.1	0.052	0.025	0.09	0.0075
Manganese, SPLP	0.14	0.25	0.38	0.23	0.32	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.018 J	0.028	0.019 J	ND	0.014 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.17 J	0.24 J	0.22 J	0.31 J	0.65 B	5

**Summary Table of ISGS Site No. 2948-32**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-1(0-1)-030716**

**Lab Sample ID: 500-108434-12**

**Date Collected: 03/07/16 12:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 76.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<26		26	5.1	ug/Kg	☼		03/08/16 16:29	1
Benzene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
Bromodichloromethane	<6.6		6.6	1.1	ug/Kg	☼		03/08/16 16:29	1
Bromoform	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:29	1
Bromomethane	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:29	1
Carbon disulfide	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:29	1
Carbon tetrachloride	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:29	1
Chlorobenzene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
Chloroethane	<6.6		6.6	2.8	ug/Kg	☼		03/08/16 16:29	1
Chloroform	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:29	1
Chloromethane	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:29	1
cis-1,2-Dichloroethene	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:29	1
cis-1,3-Dichloropropene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
Dibromochloromethane	<6.6		6.6	0.76	ug/Kg	☼		03/08/16 16:29	1
1,1-Dichloroethane	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:29	1
1,2-Dichloroethane	<6.6		6.6	0.97	ug/Kg	☼		03/08/16 16:29	1
1,1-Dichloroethene	<6.6		6.6	2.4	ug/Kg	☼		03/08/16 16:29	1
1,2-Dichloropropane	<6.6		6.6	1.7	ug/Kg	☼		03/08/16 16:29	1
1,3-Dichloropropene, Total	<6.6		6.6	1.9	ug/Kg	☼		03/08/16 16:29	1
Ethylbenzene	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:29	1
2-Hexanone	<6.6		6.6	2.0	ug/Kg	☼		03/08/16 16:29	1
Methylene Chloride	<6.6		6.6	5.0	ug/Kg	☼		03/08/16 16:29	1
Methyl Ethyl Ketone	<6.6		6.6	2.3	ug/Kg	☼		03/08/16 16:29	1
methyl isobutyl ketone	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:29	1
Methyl tert-butyl ether	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
Styrene	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
1,1,2,2-Tetrachloroethane	<6.6		6.6	1.0	ug/Kg	☼		03/08/16 16:29	1
Tetrachloroethene	<6.6		6.6	1.4	ug/Kg	☼		03/08/16 16:29	1
Toluene	<6.6		6.6	2.3	ug/Kg	☼		03/08/16 16:29	1
trans-1,2-Dichloroethene	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:29	1
trans-1,3-Dichloropropene	<6.6		6.6	1.9	ug/Kg	☼		03/08/16 16:29	1
1,1,1-Trichloroethane	<6.6		6.6	1.5	ug/Kg	☼		03/08/16 16:29	1
1,1,2-Trichloroethane	<6.6		6.6	1.3	ug/Kg	☼		03/08/16 16:29	1
Trichloroethene	<6.6		6.6	1.8	ug/Kg	☼		03/08/16 16:29	1
Vinyl chloride	<6.6		6.6	1.6	ug/Kg	☼		03/08/16 16:29	1
Xylenes, Total	<13		13	2.4	ug/Kg	☼		03/08/16 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/08/16 16:29	1
Dibromofluoromethane	104		75 - 120		03/08/16 16:29	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/08/16 16:29	1
Toluene-d8 (Surr)	105		75 - 122		03/08/16 16:29	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	☼	03/08/16 16:15	03/10/16 13:24	1
1,2-Dichlorobenzene	<210		210	51	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
1,3-Dichlorobenzene	<210		210	48	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-1(0-1)-030716**

**Lab Sample ID: 500-108434-12**

**Date Collected: 03/07/16 12:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 76.1**

**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	☼	03/08/16 16:15	03/10/16 13:24	1
2,4,6-Trichlorophenol	<420		420	150	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,4-Dinitrophenol	<850		850	750	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Methylnaphthalene	<42		42	7.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Methylphenol	<210		210	68	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
3 & 4 Methylphenol	<210		210	71	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4,6-Dinitro-2-methylphenol	<850		850	340	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Anthracene	<42		42	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Benzo[a]anthracene	<42		42	5.7	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Benzo[a]pyrene	<42		42	8.2	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
<b>Benzo[b]fluoranthene</b>	<b>10 J</b>		42	9.1	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Benzo[g,h,i]perylene	<42		42	14	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Benzo[k]fluoranthene	<42		42	12	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Bis(2-ethylhexyl) phthalate	<210		210	77	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Butyl benzyl phthalate	<210		210	81	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Carbazole	<210		210	110	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Chrysene	<42		42	12	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Dibenzofuran	<210		210	50	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Diethyl phthalate	<210		210	72	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Di-n-butyl phthalate	<210		210	65	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
<b>Fluoranthene</b>	<b>9.7 J</b>		42	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Fluorene	<42		42	6.0	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Hexachlorobenzene	<85		85	9.8	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Hexachlorobutadiene	<210		210	67	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Hexachloroethane	<210		210	64	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-1(0-1)-030716**

**Lab Sample ID: 500-108434-12**

**Date Collected: 03/07/16 12:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 76.1**

## 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	<42		42	11	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Isophorone	<210		210	48	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Naphthalene	<42		42	6.5	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Nitrobenzene	<42		42	11	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
N-Nitrosodi-n-propylamine	<85		85	52	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Pentachlorophenol	<850		850	680	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
<b>Phenanthrene</b>	<b>8.0</b>	<b>J</b>	42	5.9	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Phenol	<210		210	94	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
<b>Pyrene</b>	<b>9.7</b>	<b>J</b>	42	8.4	ug/Kg	☼	03/08/16 16:15	03/10/16 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				03/08/16 16:15	03/10/16 13:24	1
2-Fluorobiphenyl	87		25 - 119				03/08/16 16:15	03/10/16 13:24	1
2-Fluorophenol	79		25 - 110				03/08/16 16:15	03/10/16 13:24	1
Nitrobenzene-d5	84		25 - 115				03/08/16 16:15	03/10/16 13:24	1
Phenol-d5	57		31 - 110				03/08/16 16:15	03/10/16 13:24	1
Terphenyl-d14	97		36 - 134				03/08/16 16:15	03/10/16 13:24	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
<b>Iron</b>	<b>0.22</b>	<b>J</b>	0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:02	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:02	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:02	1
<b>Zinc</b>	<b>0.62</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:02	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Chromium</b>	<b>0.031</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Iron</b>	<b>23</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-1(0-1)-030716**

**Lab Sample ID: 500-108434-12**

**Date Collected: 03/07/16 12:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 76.1**

**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		03/11/16 08:51	03/11/16 23:17	1
<b>Zinc</b>	<b>0.17</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Arsenic</b>	<b>5.2</b>		0.64	0.30	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Barium</b>	<b>56</b>		0.64	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Beryllium</b>	<b>0.59</b>		0.26	0.055	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Cadmium</b>	<b>0.17</b>		0.13	0.037	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Calcium</b>	<b>3900</b>	<b>B</b>	13	4.1	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Chromium</b>	<b>12</b>	<b>B</b>	3.2	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Cobalt</b>	<b>3.2</b>		0.32	0.072	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Copper</b>	<b>9.1</b>		0.64	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Iron</b>	<b>14000</b>		13	4.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Lead</b>	<b>13</b>		0.32	0.16	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Magnesium</b>	<b>1300</b>		6.4	2.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Manganese</b>	<b>160</b>		0.64	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Nickel</b>	<b>8.9</b>	<b>B</b>	0.64	0.17	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Potassium</b>	<b>480</b>		32	5.2	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Selenium</b>	<b>0.79</b>		0.64	0.32	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Sodium</b>	<b>950</b>		64	8.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
Thallium	<0.64		0.64	0.31	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Vanadium</b>	<b>21</b>		0.32	0.093	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.3	0.40	mg/Kg	☼	03/09/16 15:56	03/10/16 22:27	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		03/10/16 20:00	03/12/16 16:13	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 17:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>33</b>		20	11	ug/Kg	☼	03/09/16 14:00	03/11/16 14:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.55</b>		0.200	0.200	SU			03/09/16 15:07	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-2(0-1)-030716**

**Lab Sample ID: 500-108434-17**

**Date Collected: 03/07/16 13:05**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 18:35	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 18:35	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/08/16 18:35	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 18:35	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 18:35	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/08/16 18:35	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 18:35	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 18:35	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/08/16 18:35	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/08/16 18:35	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 18:35	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 18:35	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 18:35	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/08/16 18:35	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/08/16 18:35	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 18:35	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 18:35	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/08/16 18:35	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 18:35	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/08/16 18:35	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 18:35	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 18:35	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 18:35	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 18:35	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 18:35	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/08/16 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/08/16 18:35	1
Dibromofluoromethane	107		75 - 120		03/08/16 18:35	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/08/16 18:35	1
Toluene-d8 (Surr)	106		75 - 122		03/08/16 18:35	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	40	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-2(0-1)-030716**

**Lab Sample ID: 500-108434-17**

**Date Collected: 03/07/16 13:05**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

**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	84	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>2-Methylnaphthalene</b>	<b>42</b>		37	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Acenaphthylene</b>	<b>66</b>		37	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Anthracene</b>	<b>23 J</b>		37	6.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Benzo[a]anthracene</b>	<b>93 *</b>		37	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Benzo[a]pyrene</b>	<b>190 *</b>		37	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Benzo[b]fluoranthene</b>	<b>280 *</b>		37	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Benzo[g,h,i]perylene</b>	<b>140 *</b>		37	12	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Benzo[k]fluoranthene</b>	<b>92 *</b>		37	11	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Carbazole	<180		180	92	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Chrysene</b>	<b>120 *</b>		37	10	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Dibenzofuran</b>	<b>54 J</b>		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Fluoranthene</b>	<b>120</b>		37	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-2(0-1)-030716**

**Lab Sample ID: 500-108434-17**

**Date Collected: 03/07/16 13:05**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.8**

## 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>110</b>	*	37	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Naphthalene</b>	<b>17</b>	J	37	5.7	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Phenanthrene</b>	<b>320</b>		37	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
Phenol	<180		180	82	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	1
<b>Pyrene</b>	<b>240</b>	*	37	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 16:37	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	87		35 - 137				03/08/16 16:15	03/10/16 16:37	1
2-Fluorobiphenyl	108		25 - 119				03/08/16 16:15	03/10/16 16:37	1
2-Fluorophenol	111	X	25 - 110				03/08/16 16:15	03/10/16 16:37	1
Nitrobenzene-d5	106		25 - 115				03/08/16 16:15	03/10/16 16:37	1
Phenol-d5	83		31 - 110				03/08/16 16:15	03/10/16 16:37	1
Terphenyl-d14	220	X*	36 - 134				03/08/16 16:15	03/10/16 16:37	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		03/10/16 14:50	03/11/16 16:35	1
<b>Barium</b>	<b>0.26</b>	J	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:35	1
<b>Lead</b>	<b>0.013</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:35	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:35	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:35	1
<b>Zinc</b>	<b>0.66</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:35	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>	J	0.050	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Barium</b>	<b>0.24</b>	J	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Copper</b>	<b>0.024</b>	J	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Iron</b>	<b>29</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: AL32-2(0-1)-030716**

**Lab Sample ID: 500-108434-17**

Date Collected: 03/07/16 13:05

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 86.8

**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		03/11/16 08:51	03/11/16 23:51	1
<b>Zinc</b>	<b>0.24</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:51	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	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Arsenic</b>	<b>3.1</b>		0.56	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Barium</b>	<b>43</b>		0.56	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Beryllium</b>	<b>0.37</b>		0.22	0.048	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.032	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Chromium</b>	<b>6.8</b>	<b>B</b>	2.8	0.096	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Cobalt</b>	<b>2.6</b>		0.28	0.063	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Copper</b>	<b>4.8</b>		0.56	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Iron</b>	<b>6300</b>		11	4.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Lead</b>	<b>77</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Magnesium</b>	<b>15000</b>		5.6	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Manganese</b>	<b>170</b>		0.56	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Nickel</b>	<b>6.6</b>	<b>B</b>	0.56	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Potassium</b>	<b>390</b>		28	4.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
Selenium	<0.56		0.56	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Sodium</b>	<b>590</b>		56	7.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Vanadium</b>	<b>11</b>		0.28	0.081	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1
<b>Zinc</b>	<b>33</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	03/09/16 15:56	03/10/16 22:50	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:27	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		03/10/16 20:00	03/12/16 17:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>17</b>	<b>J</b>	19	10	ug/Kg	☼	03/09/16 14:00	03/11/16 14:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.42</b>		0.200	0.200	SU			03/09/16 15:31	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key										
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other									
Project Name		Lab Project #		# of Containers		Matrix		Comments										
100T040-IL Route 113																		
Project Location/State		Lab PM																
Braidwood, IL		D Wright																
Sampler																		
M. Bohony-Skubic																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH							
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X							
2		BR7-8(0-1)-030716		0853														
3		BR7-9(0-1)-030716		0915														
4		BR7-10(0-1)-030716		0927														
5		BR7-11(0-1)-030716		0938														
6		BR7-12(0-1)-030716		0947														
7		FS-1(0-1)-030716		1010														
8		FS-2(0-1)-030716		1025														
9		WL4-1(0-1)-030716		1047														
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X							

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

*Per contract*  
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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH	
Project Location/State		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	Comments						
Weston Solutions		02056-04-040-0030									
IDOT 040-IL Route 113											
Brandwood Dr		D. Wright									
M. Doherty-Skubic											
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments:

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-3(0-1)-031416**

**Lab Sample ID: 500-108762-14**

**Date Collected: 03/14/16 16:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/16/16 16:30	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/16/16 16:30	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/16/16 16:30	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:30	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:30	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/16/16 16:30	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/16/16 16:30	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/16/16 16:30	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/16/16 16:30	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:30	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/16/16 16:30	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/16/16 16:30	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/16/16 16:30	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/16/16 16:30	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/16/16 16:30	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/16/16 16:30	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/16/16 16:30	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/16/16 16:30	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/16/16 16:30	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/16/16 16:30	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:30	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/16/16 16:30	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:30	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 16:30	1
Dibromofluoromethane	105		75 - 120		03/16/16 16:30	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 16:30	1
Toluene-d8 (Surr)	112		75 - 122		03/16/16 16:30	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-3(0-1)-031416**

**Lab Sample ID: 500-108762-14**

**Date Collected: 03/14/16 16:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Benzo[a]anthracene	<38 *		38	5.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Benzo[a]pyrene	<38 *		38	7.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Benzo[b]fluoranthene	<38 *		38	8.2	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Bis(2-ethylhexyl) phthalate	<190 *		190	70	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Butyl benzyl phthalate	<190 *		190	73	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Carbazole	<190		190	95	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Chrysene	<38 *		38	10	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-3(0-1)-031416**

**Lab Sample ID: 500-108762-14**

**Date Collected: 03/14/16 16:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
<b>Phenanthrene</b>	<b>20</b>	<b>J</b>	38	5.3	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Phenol	<190		190	85	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
<b>Pyrene</b>	<b>15</b>	<b>J *</b>	38	7.6	ug/Kg	☼	03/17/16 07:00	03/28/16 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				03/17/16 07:00	03/28/16 13:29	1
2-Fluorobiphenyl	87		25 - 119				03/17/16 07:00	03/28/16 13:29	1
2-Fluorophenol	87		25 - 110				03/17/16 07:00	03/28/16 13:29	1
Nitrobenzene-d5	89		25 - 115				03/17/16 07:00	03/28/16 13:29	1
Phenol-d5	76		31 - 110				03/17/16 07:00	03/28/16 13:29	1
Terphenyl-d14	216	X *	36 - 134				03/17/16 07:00	03/28/16 13:29	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		03/22/16 14:29	03/25/16 00:06	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/25/16 00:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/25/16 00:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/25/16 00:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/25/16 00:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/25/16 00:06	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/25/16 00:06	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:06	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/25/16 00:06	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		03/23/16 14:51	03/25/16 03:46	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:27	1
<b>Chromium</b>	<b>0.027</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:27	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:46	1
<b>Iron</b>	<b>25</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:46	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:27	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:46	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-3(0-1)-031416**

**Lab Sample ID: 500-108762-14**

**Date Collected: 03/14/16 16:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.6**

**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		03/23/16 14:51	03/25/16 03:46	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:46	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	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Arsenic</b>	<b>1.9</b>		0.55	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Barium</b>	<b>30</b>		0.55	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Beryllium</b>	<b>0.26</b>		0.22	0.047	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.032	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Calcium</b>	<b>6700</b>		11	3.5	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Chromium</b>	<b>6.1</b>		0.55	0.094	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Cobalt</b>	<b>2.2</b>		0.27	0.062	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Copper</b>	<b>4.3</b>		0.55	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Iron</b>	<b>6400</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Lead</b>	<b>14</b>		0.27	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Magnesium</b>	<b>3600</b>		5.5	2.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Manganese</b>	<b>180</b>	<b>B</b>	0.55	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 13:29	1
<b>Nickel</b>	<b>5.0</b>		0.55	0.15	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Potassium</b>	<b>290</b>		27	4.5	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Sodium</b>	<b>1000</b>		55	7.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Vanadium</b>	<b>12</b>		0.27	0.080	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	1
<b>Zinc</b>	<b>23</b>		1.1	0.35	mg/Kg	☼	03/18/16 09:23	03/24/16 02:42	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		03/23/16 09:00	03/23/16 18:53	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		03/23/16 17:00	03/24/16 12:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	17	9.0	ug/Kg	☼	03/21/16 15:30	03/23/16 00:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.82</b>		0.200	0.200	SU			03/17/16 15:59	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-4(0-1)-031416**

**Lab Sample ID: 500-108762-15**

**Date Collected: 03/14/16 16:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 75.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<26		26	5.1	ug/Kg	☼		03/16/16 16:55	1
Benzene	<6.6		6.6	1.5	ug/Kg	☼		03/16/16 16:55	1
Bromodichloromethane	<6.6		6.6	1.1	ug/Kg	☼		03/16/16 16:55	1
Bromoform	<6.6		6.6	1.3	ug/Kg	☼		03/16/16 16:55	1
Bromomethane	<6.6		6.6	2.4	ug/Kg	☼		03/16/16 16:55	1
Carbon disulfide	<6.6		6.6	2.4	ug/Kg	☼		03/16/16 16:55	1
Carbon tetrachloride	<6.6		6.6	1.4	ug/Kg	☼		03/16/16 16:55	1
Chlorobenzene	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
Chloroethane	<6.6		6.6	2.8	ug/Kg	☼		03/16/16 16:55	1
Chloroform	<6.6		6.6	1.3	ug/Kg	☼		03/16/16 16:55	1
Chloromethane	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
cis-1,2-Dichloroethene	<6.6		6.6	1.3	ug/Kg	☼		03/16/16 16:55	1
cis-1,3-Dichloropropene	<6.6		6.6	1.5	ug/Kg	☼		03/16/16 16:55	1
Dibromochloromethane	<6.6		6.6	0.76	ug/Kg	☼		03/16/16 16:55	1
1,1-Dichloroethane	<6.6		6.6	1.4	ug/Kg	☼		03/16/16 16:55	1
1,2-Dichloroethane	<6.6		6.6	0.98	ug/Kg	☼		03/16/16 16:55	1
1,1-Dichloroethene	<6.6		6.6	2.4	ug/Kg	☼		03/16/16 16:55	1
1,2-Dichloropropane	<6.6		6.6	1.7	ug/Kg	☼		03/16/16 16:55	1
1,3-Dichloropropene, Total	<6.6		6.6	1.9	ug/Kg	☼		03/16/16 16:55	1
Ethylbenzene	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
2-Hexanone	<6.6		6.6	2.0	ug/Kg	☼		03/16/16 16:55	1
Methylene Chloride	<6.6		6.6	5.0	ug/Kg	☼		03/16/16 16:55	1
Methyl Ethyl Ketone	<6.6		6.6	2.3	ug/Kg	☼		03/16/16 16:55	1
methyl isobutyl ketone	<6.6		6.6	1.4	ug/Kg	☼		03/16/16 16:55	1
Methyl tert-butyl ether	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
Styrene	<6.6		6.6	1.5	ug/Kg	☼		03/16/16 16:55	1
1,1,2,2-Tetrachloroethane	<6.6		6.6	1.0	ug/Kg	☼		03/16/16 16:55	1
Tetrachloroethene	<6.6		6.6	1.4	ug/Kg	☼		03/16/16 16:55	1
Toluene	<6.6		6.6	2.3	ug/Kg	☼		03/16/16 16:55	1
trans-1,2-Dichloroethene	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
trans-1,3-Dichloropropene	<6.6		6.6	1.9	ug/Kg	☼		03/16/16 16:55	1
1,1,1-Trichloroethane	<6.6		6.6	1.5	ug/Kg	☼		03/16/16 16:55	1
1,1,2-Trichloroethane	<6.6		6.6	1.3	ug/Kg	☼		03/16/16 16:55	1
Trichloroethene	<6.6		6.6	1.8	ug/Kg	☼		03/16/16 16:55	1
Vinyl chloride	<6.6		6.6	1.6	ug/Kg	☼		03/16/16 16:55	1
Xylenes, Total	<13		13	2.4	ug/Kg	☼		03/16/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/16/16 16:55	1
Dibromofluoromethane	105		75 - 120		03/16/16 16:55	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		03/16/16 16:55	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 16:55	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	☼	03/17/16 07:00	03/25/16 12:00	1
1,2-Dichlorobenzene	<210		210	51	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
1,3-Dichlorobenzene	<210		210	48	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-4(0-1)-031416**

**Lab Sample ID: 500-108762-15**

**Date Collected: 03/14/16 16:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 75.8**

**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	☼	03/17/16 07:00	03/25/16 12:00	1
2,4,6-Trichlorophenol	<420		420	150	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,4-Dinitrophenol	<850		850	750	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Methylnaphthalene	<42		42	7.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Methylphenol	<210		210	68	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
3 & 4 Methylphenol	<210		210	71	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4,6-Dinitro-2-methylphenol	<850		850	340	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Anthracene	<42		42	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Benzo[a]anthracene	<42		42	5.7	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Benzo[a]pyrene	<42	*	42	8.2	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Benzo[b]fluoranthene	<42	*	42	9.1	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Benzo[g,h,i]perylene	<42	*	42	14	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Benzo[k]fluoranthene	<42	*	42	12	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Bis(2-ethylhexyl) phthalate	<210		210	77	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Butyl benzyl phthalate	<210		210	80	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Carbazole	<210		210	110	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Chrysene	<42		42	12	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Dibenz(a,h)anthracene	<42	*	42	8.2	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Dibenzofuran	<210		210	50	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Diethyl phthalate	<210		210	72	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Di-n-butyl phthalate	<210		210	64	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
<b>Fluoranthene</b>	<b>19</b>	<b>J</b>	42	7.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Fluorene	<42		42	5.9	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Hexachlorobenzene	<85		85	9.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Hexachlorobutadiene	<210		210	66	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Hexachloroethane	<210		210	64	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-4(0-1)-031416**

**Lab Sample ID: 500-108762-15**

**Date Collected: 03/14/16 16:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 75.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<42	*	42	11	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Isophorone	<210		210	48	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Naphthalene	<42		42	6.5	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Nitrobenzene	<42		42	11	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
N-Nitrosodi-n-propylamine	<85		85	52	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Pentachlorophenol	<850		850	680	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
<b>Phenanthrene</b>	<b>19</b>	<b>J</b>	42	5.9	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Phenol	<210		210	94	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
<b>Pyrene</b>	<b>22</b>	<b>J</b>	42	8.4	ug/Kg	☼	03/17/16 07:00	03/25/16 12:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				03/17/16 07:00	03/25/16 12:00	1
2-Fluorobiphenyl	84		25 - 119				03/17/16 07:00	03/25/16 12:00	1
2-Fluorophenol	89		25 - 110				03/17/16 07:00	03/25/16 12:00	1
Nitrobenzene-d5	68		25 - 115				03/17/16 07:00	03/25/16 12:00	1
Phenol-d5	47		31 - 110				03/17/16 07:00	03/25/16 12:00	1
Terphenyl-d14	150	X	36 - 134				03/17/16 07:00	03/25/16 12:00	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/25/16 00:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/25/16 00:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/25/16 00:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/25/16 00:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/25/16 00:11	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/25/16 00:11	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:11	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/25/16 00:11	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		03/23/16 14:51	03/25/16 03:50	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:32	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:32	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:50	1
<b>Iron</b>	<b>16</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:50	1
<b>Lead</b>	<b>0.025</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:32	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-4(0-1)-031416**

**Lab Sample ID: 500-108762-15**

**Date Collected: 03/14/16 16:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 75.8**

**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		03/23/16 14:51	03/25/16 03:50	1
<b>Zinc</b>	<b>0.31</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Arsenic</b>	<b>2.9</b>		0.47	0.22	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Barium</b>	<b>65</b>		0.47	0.087	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Beryllium</b>	<b>0.70</b>		0.19	0.041	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Cadmium</b>	<b>0.11</b>		0.095	0.027	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Calcium</b>	<b>12000</b>		9.5	3.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Chromium</b>	<b>8.6</b>		0.47	0.081	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Cobalt</b>	<b>3.3</b>		0.24	0.053	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Copper</b>	<b>6.7</b>		0.47	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Iron</b>	<b>11000</b>	<b>B</b>	9.5	3.6	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Lead</b>	<b>10</b>		0.24	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Magnesium</b>	<b>4400</b>		4.7	1.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Manganese</b>	<b>230</b>	<b>B</b>	0.47	0.094	mg/Kg	☼	03/18/16 09:23	03/24/16 13:34	1
<b>Nickel</b>	<b>7.5</b>		0.47	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Potassium</b>	<b>500</b>		24	3.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Selenium</b>	<b>0.67</b>		0.47	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Sodium</b>	<b>1000</b>		47	6.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Vanadium</b>	<b>16</b>		0.24	0.069	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1
<b>Zinc</b>	<b>34</b>		0.95	0.30	mg/Kg	☼	03/18/16 09:23	03/24/16 02:55	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:59	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		03/23/16 17:00	03/24/16 12:11	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>24</b>		20	11	ug/Kg	☼	03/21/16 15:30	03/23/16 00:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.82</b>		0.200	0.200	SU			03/17/16 16:04	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-5(0-1)-031416**

**Lab Sample ID: 500-108762-16**

**Date Collected: 03/14/16 16:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>36</b>		24	4.6	ug/Kg	☼		03/16/16 17:20	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 17:20	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/16/16 17:20	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 17:20	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 17:20	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 17:20	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 17:20	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/16/16 17:20	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 17:20	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 17:20	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 17:20	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/16/16 17:20	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 17:20	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/16/16 17:20	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 17:20	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 17:20	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 17:20	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 17:20	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/16/16 17:20	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/16/16 17:20	1
<b>Methyl Ethyl Ketone</b>	<b>6.2</b>		5.9	2.1	ug/Kg	☼		03/16/16 17:20	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 17:20	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/16/16 17:20	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 17:20	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/16/16 17:20	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 17:20	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 17:20	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 17:20	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 17:20	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 17:20	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 17:20	1
Dibromofluoromethane	102		75 - 120		03/16/16 17:20	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 17:20	1
Toluene-d8 (Surr)	110		75 - 122		03/16/16 17:20	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-5(0-1)-031416**

**Lab Sample ID: 500-108762-16**

**Date Collected: 03/14/16 16:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>2-Methylnaphthalene</b>	<b>20</b>	<b>J</b>	39	7.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2-Methylphenol	<200		200	62	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
3,3'-Dichlorobenzidine	<200	*	200	54	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Acenaphthylene</b>	<b>36</b>	<b>J</b>	39	5.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Anthracene</b>	<b>20</b>	<b>J</b>	39	6.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Benzo[a]anthracene</b>	<b>130</b>	*	39	5.2	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Benzo[a]pyrene</b>	<b>170</b>	*	39	7.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Benzo[b]fluoranthene</b>	<b>250</b>	*	39	8.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Benzo[k]fluoranthene</b>	<b>89</b>	*	39	11	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Bis(2-ethylhexyl) phthalate	<200	*	200	71	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Butyl benzyl phthalate	<200	*	200	74	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Carbazole	<200		200	97	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Chrysene</b>	<b>150</b>	*	39	11	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Dibenz(a,h)anthracene	<39	*	39	7.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Dibenzofuran	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Fluoranthene</b>	<b>120</b>		39	7.2	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-5(0-1)-031416**

**Lab Sample ID: 500-108762-16**

**Date Collected: 03/14/16 16:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.0**

**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>100</b>	*	39	10	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Isophorone	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Phenanthrene</b>	<b>170</b>		39	5.4	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
Phenol	<200		200	86	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	1
<b>Pyrene</b>	<b>430</b>	*	39	7.7	ug/Kg	☼	03/17/16 07:00	03/28/16 13:54	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	91		35 - 137				03/17/16 07:00	03/28/16 13:54	1
2-Fluorobiphenyl	95		25 - 119				03/17/16 07:00	03/28/16 13:54	1
2-Fluorophenol	80		25 - 110				03/17/16 07:00	03/28/16 13:54	1
Nitrobenzene-d5	79		25 - 115				03/17/16 07:00	03/28/16 13:54	1
Phenol-d5	70		31 - 110				03/17/16 07:00	03/28/16 13:54	1
Terphenyl-d14	246	X *	36 - 134				03/17/16 07:00	03/28/16 13:54	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
<b>Barium</b>	<b>0.26</b>	J	0.50	0.050	mg/L		03/22/16 14:29	03/25/16 00:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/25/16 00:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/25/16 00:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/25/16 00:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/25/16 00:16	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/25/16 00:16	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:16	1
<b>Zinc</b>	<b>0.028</b>	J	0.50	0.020	mg/L		03/22/16 14:29	03/25/16 00:16	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		03/23/16 14:51	03/25/16 03:54	1
<b>Barium</b>	<b>0.15</b>	J	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:36	1
<b>Chromium</b>	<b>0.029</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:36	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:54	1
<b>Iron</b>	<b>31</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:54	1
<b>Lead</b>	<b>0.090</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:36	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:54	1
<b>Nickel</b>	<b>0.014</b>	J	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: AL32-5(0-1)-031416**

**Lab Sample ID: 500-108762-16**

**Date Collected: 03/14/16 16:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.0**

**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		03/23/16 14:51	03/25/16 03:54	1
<b>Zinc</b>	<b>0.65</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:54	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.92		0.92	0.19	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Arsenic</b>	<b>3.8</b>		0.46	0.21	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Barium</b>	<b>35</b>		0.46	0.084	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Beryllium</b>	<b>0.35</b>		0.18	0.040	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Cadmium</b>	<b>0.21</b>		0.092	0.027	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Calcium</b>	<b>13000</b>		9.2	2.9	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Chromium</b>	<b>6.6</b>		0.46	0.079	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Cobalt</b>	<b>2.2</b>		0.23	0.052	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Copper</b>	<b>6.0</b>		0.46	0.099	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Iron</b>	<b>11000</b>	<b>B</b>	9.2	3.5	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Lead</b>	<b>28</b>		0.23	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Magnesium</b>	<b>6300</b>		4.6	1.9	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Manganese</b>	<b>130</b>	<b>B</b>	0.46	0.091	mg/Kg	☼	03/18/16 09:23	03/24/16 13:39	1
<b>Nickel</b>	<b>5.6</b>		0.46	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Potassium</b>	<b>290</b>		23	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Selenium</b>	<b>0.46</b>		0.46	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Sodium</b>	<b>630</b>		46	6.0	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Vanadium</b>	<b>13</b>		0.23	0.067	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	1
<b>Zinc</b>	<b>29</b>		0.92	0.29	mg/Kg	☼	03/18/16 09:23	03/24/16 03:00	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		03/23/16 09:00	03/23/16 19:00	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		03/23/16 17:00	03/24/16 12:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>19</b>		18	9.7	ug/Kg	☼	03/21/16 15:30	03/23/16 00:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.18</b>		0.200	0.200	SU			03/17/16 16:10	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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 6041  
Phone: 708.534.5200 Fax: 708.534.5



500-108762 COC

Report To (optional)  
Contact: S. Babusalkumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sam  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762

Chain of Custody Number: \_\_\_\_\_

Page 3 of 4

Temperature °C of Cooler: 2.3 2.8 3.0 3.5 3/15/16

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Branch of West Park / IL</u>		<u>D. Wright</u>																	
Sampler		Date		Time															
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP	SAP Metals	PH	Comments						
<u>1</u>		<u>R45-3(0-1)-031416</u>	<u>3-14-16</u>	<u>1400</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>2</u>		<u>R45-4(0-1)-031416</u>		<u>1405</u>															
<u>3</u>		<u>R45-5(0-1)-031416</u>		<u>1420</u>															
<u>4</u>		<u>R43-4(0-1)-031416</u>		<u>1425</u>															
<u>5</u>		<u>R43-5(0-1)-031416</u>		<u>1435</u>															
<u>6</u>		<u>R43-6(0-1)-031416</u>		<u>1445</u>															
<u>7</u>		<u>R43-7(0-1)-031416</u>		<u>1455</u>															
<u>8</u>		<u>R39-2(0-1)-031416</u>		<u>1510</u>															
<u>9</u>		<u>R39-3(0-1)-031416</u>		<u>1525</u>															
<u>10</u>		<u>R39-3(0-1)-031416D</u>	<u>3-14-16</u>	<u>1525</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley</u>	Company <u>TA-CRT</u>	Date <u>3/15/16</u>	Time <u>0725</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: \_\_\_\_\_

# 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. Babuszekumar  
Company: Worston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Worston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH						
<u>IDOT-040</u>				Date	Time														
Project Location/State <u>Bradwood &amp; Galev R/W / IL</u>		Lab PM <u>D. Wright</u>																	
Sampler <u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH					Comments		
<u>11</u>		<u>R39-4(0-1)-031416</u>	<u>3-14-16</u>	<u>1535</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>12</u>		<u>R39-5(0-1)-031416</u>		<u>1545</u>															
<u>13</u>		<u>W037-1(0-1)-031416</u>		<u>1555</u>															
<u>14</u>		<u>AL32-3(0-1)-031416</u>		<u>1605</u>															
<u>15</u>		<u>AL32-4(0-1)-031416</u>		<u>1615</u>															
<u>16</u>		<u>AL32-5(0-1)-031416</u>		<u>1620</u>															
<u>17</u>		<u>F30-1(0-1)-031416</u>	<u>3-14-16</u>	<u>1630</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<del><u>T. Walls 3-14-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Worston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CERT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22500 block of W. IL 113, (ISGS Site No. 2948-33)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261291523 Longitude: -88.156116647  
(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: FAU 327: Illinois Route 113

Latitude: 41.261291523 Longitude: -88.156116647

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 GL33-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-33. SEE FIGURE 3-5 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: 500-108434-1.  
ALSO SEE FIGURE 4-5 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.

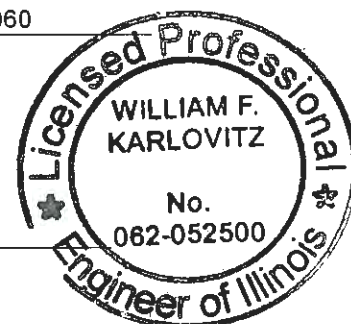
Printed Name:

*William F. Karlovitz*

5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-33**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

<b>Field Sample ID</b>	GL33-1(0-1)-030716	<b>Soil Reference Concentrations</b>
<b>Sample Date</b>	3/7/2016	
<b>Location ID</b>	GL33-1	
<b>Depth</b>	0 - 1	
<b>Location Code</b>	2948-33	
<b>Parameter</b>		
Laboratory pH	7.79	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	58 *	900 / 1100 / 1800
Benzo(b)fluoranthene	120 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	3.5	11.3 / 13
Barium, Total	44	1500
Beryllium, Total	0.48	22
Cadmium, Total	0.2	5.2
Calcium, Total	12000 J	---
Chromium, Total	9.7 B	21
Iron, Total	9800 J+	15000 / 15900
Lead, Total	28 J	107
Manganese, Total	110 J	630 / 636
Mercury, Total	0.03 J	0.89
Nickel, Total	7.4 B	100
Potassium, Total	460 J+	---
Selenium, Total	0.48 J	1.3
Silver, Total	ND	4.4
Zinc, Total	39 B	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.36 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	0.0097	0.0075
Manganese, TCLP	3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.49 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.01 J	0.05
Barium, SPLP	0.21 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.029	0.1
Iron, SPLP	23	5
Lead, SPLP	0.071	0.0075
Manganese, SPLP	0.27	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.018 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.44 J	5

**Summary Table of ISGS Site No. 2948-33**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: GL33-1(0-1)-030716**

**Lab Sample ID: 500-108434-13**

**Date Collected: 03/07/16 12:20**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.7	ug/Kg	☼		03/08/16 16:54	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/08/16 16:54	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 16:54	1
Bromomethane	<6.1		6.1	2.3	ug/Kg	☼		03/08/16 16:54	1
Carbon disulfide	<6.1		6.1	2.3	ug/Kg	☼		03/08/16 16:54	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 16:54	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/08/16 16:54	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 16:54	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 16:54	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 16:54	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/08/16 16:54	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 16:54	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/08/16 16:54	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/08/16 16:54	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/08/16 16:54	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 16:54	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 16:54	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/08/16 16:54	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/08/16 16:54	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/08/16 16:54	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 16:54	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/08/16 16:54	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 16:54	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/08/16 16:54	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 16:54	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 16:54	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 16:54	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 16:54	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 16:54	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 16:54	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/08/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		03/08/16 16:54	1
Dibromofluoromethane	105		75 - 120		03/08/16 16:54	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/08/16 16:54	1
Toluene-d8 (Surr)	108		75 - 122		03/08/16 16:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: GL33-1(0-1)-030716**

**Lab Sample ID: 500-108434-13**

**Date Collected: 03/07/16 12:20**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>2-Methylnaphthalene</b>	<b>29</b>	<b>J</b>	38	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Acenaphthene</b>	<b>15</b>	<b>J</b>	38	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Acenaphthylene</b>	<b>24</b>	<b>J</b>	38	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Anthracene</b>	<b>19</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Benzo[a]anthracene</b>	<b>58</b>	<b>*</b>	38	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Benzo[a]pyrene	<38	*	38	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Benzo[b]fluoranthene</b>	<b>120</b>	<b>*</b>	38	8.3	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Benzo[g,h,i]perylene	<38	*	38	12	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Benzo[k]fluoranthene</b>	<b>56</b>	<b>*</b>	38	11	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Bis(2-ethylhexyl) phthalate	<190	*	190	71	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Carbazole	<190		190	96	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Chrysene</b>	<b>74</b>	<b>*</b>	38	11	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Dibenz(a,h)anthracene	<38	*	38	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Fluoranthene</b>	<b>110</b>		38	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Fluorene</b>	<b>24</b>	<b>J</b>	38	5.4	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: GL33-1(0-1)-030716**

**Lab Sample ID: 500-108434-13**

**Date Collected: 03/07/16 12:20**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	10	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Naphthalene</b>	<b>16</b>	<b>J</b>	38	5.9	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Phenanthrene</b>	<b>190</b>		38	5.4	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Phenol	<190		190	86	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
<b>Pyrene</b>	<b>170</b>	<b>*</b>	38	7.7	ug/Kg	☼	03/08/16 16:15	03/10/16 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/08/16 16:15	03/10/16 15:50	1
2-Fluorobiphenyl	77		25 - 119				03/08/16 16:15	03/10/16 15:50	1
2-Fluorophenol	73		25 - 110				03/08/16 16:15	03/10/16 15:50	1
Nitrobenzene-d5	78		25 - 115				03/08/16 16:15	03/10/16 15:50	1
Phenol-d5	62		31 - 110				03/08/16 16:15	03/10/16 15:50	1
Terphenyl-d14	148	X *	36 - 134				03/08/16 16:15	03/10/16 15:50	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		03/10/16 14:50	03/11/16 16:08	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:08	1
<b>Lead</b>	<b>0.0097</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:08	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:08	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:08	1
<b>Zinc</b>	<b>0.49</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Chromium</b>	<b>0.029</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Copper</b>	<b>0.033</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Iron</b>	<b>23</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Lead</b>	<b>0.071</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:24	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: GL33-1(0-1)-030716**

**Lab Sample ID: 500-108434-13**

**Date Collected: 03/07/16 12:20**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.6**

**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		03/11/16 08:51	03/11/16 23:24	1
<b>Zinc</b>	<b>0.44</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:24	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	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Arsenic</b>	<b>3.5</b>		0.60	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Barium</b>	<b>44</b>		0.60	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Beryllium</b>	<b>0.48</b>		0.24	0.052	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Cadmium</b>	<b>0.20</b>		0.12	0.035	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	12	3.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Chromium</b>	<b>9.7</b>	<b>B</b>	3.0	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Cobalt</b>	<b>2.8</b>		0.30	0.068	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Copper</b>	<b>7.2</b>		0.60	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Iron</b>	<b>9800</b>		12	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Lead</b>	<b>28</b>		0.30	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Magnesium</b>	<b>6800</b>		6.0	2.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Manganese</b>	<b>110</b>		0.60	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Nickel</b>	<b>7.4</b>	<b>B</b>	0.60	0.16	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Potassium</b>	<b>460</b>		30	4.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Sodium</b>	<b>1400</b>		60	7.9	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Vanadium</b>	<b>17</b>		0.30	0.088	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1
<b>Zinc</b>	<b>39</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	03/09/16 15:56	03/10/16 22:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 17:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>30</b>		20	10	ug/Kg	☼	03/09/16 14:00	03/11/16 14:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			03/09/16 15:11	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUR/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

Permitted 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH	
Project Location/State		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	Comments						
Weston Solutions		02056-04-040-0030		7	7	7	7	7			
IDOT 040-IL Route 113											
Brandwood, IL		D. Wright									
M. Doherty-Skubic											
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22550-22551 W. IL 113, (ISGS Site No. 2948-34)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261310376 Longitude: -88.155047615  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113Latitude: 41.261310376 Longitude: -88.155047615Uncontaminated 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 R34-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-34. SEE FIGURE 3-5 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: 500-108434-1.  
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

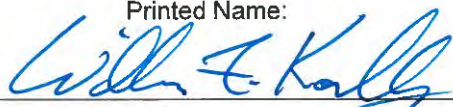
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-34**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R34-1(0-1)-030716	<b>Soil Reference Concentrations</b>
Sample Date	3/7/2016	
Location ID	R34-1	
Depth	0 - 1	
Location Code	2948-34	
Parameter		
Laboratory pH	6.63	<6.25,>9.0
<b>VOCs (ug/kg)</b>		
Acetone	130	25000
Methyl ethyl ketone	29	---
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	9.9 J	900 / 1100 / 1800
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	2.7	11.3 / 13
Barium, Total	33	1500
Beryllium, Total	0.36	22
Cadmium, Total	0.22	5.2
Calcium, Total	2300 J	---
Chromium, Total	7.2 B	21
Iron, Total	7100 J+	15000 / 15900
Lead, Total	10 J	107
Manganese, Total	74 J	630 / 636
Mercury, Total	0.012 J	0.89
Nickel, Total	5.4 B	100
Potassium, Total	260 J+	---
Selenium, Total	0.38 J	1.3
Silver, Total	ND	4.4
Zinc, Total	30 B	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	0.011 J	0.05
Barium, TCLP	0.18 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.27 J	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.5	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.2 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.15 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	ND	0.1
Iron, SPLP	5	5
Lead, SPLP	ND	0.0075
Manganese, SPLP	0.11	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.16 J	5



**Summary Table of ISGS Site No. 2948-34**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 AM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R34-1(0-1)-030716**

**Lab Sample ID: 500-108434-14**

**Date Collected: 03/07/16 12:30**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>130</b>		24	4.7	ug/Kg	☼		03/08/16 17:20	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/08/16 17:20	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 17:20	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/08/16 17:20	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/08/16 17:20	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 17:20	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/08/16 17:20	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 17:20	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 17:20	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 17:20	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/08/16 17:20	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 17:20	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/08/16 17:20	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/08/16 17:20	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/08/16 17:20	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 17:20	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 17:20	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/08/16 17:20	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/08/16 17:20	1
<b>Methyl Ethyl Ketone</b>	<b>29</b>		6.1	2.2	ug/Kg	☼		03/08/16 17:20	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 17:20	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/08/16 17:20	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/08/16 17:20	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/08/16 17:20	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 17:20	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 17:20	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/08/16 17:20	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/08/16 17:20	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/08/16 17:20	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/08/16 17:20	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/08/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		03/08/16 17:20	1
Dibromofluoromethane	106		75 - 120		03/08/16 17:20	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/08/16 17:20	1
Toluene-d8 (Surr)	105		75 - 122		03/08/16 17:20	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	☼	03/08/16 16:15	03/10/16 16:14	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R34-1(0-1)-030716**

**Lab Sample ID: 500-108434-14**

**Date Collected: 03/07/16 12:30**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.8**

**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	87	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
<b>Benzo[a]anthracene</b>	<b>9.9 J *</b>		38	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Benzo[a]pyrene	<38 *		38	7.4	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Benzo[b]fluoranthene	<38 *		38	8.2	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Bis(2-ethylhexyl) phthalate	<190 *		190	70	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Butyl benzyl phthalate	<190 *		190	73	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Carbazole	<190		190	95	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
<b>Chrysene</b>	<b>13 J *</b>		38	10	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
<b>Fluoranthene</b>	<b>14 J</b>		38	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R34-1(0-1)-030716**

**Lab Sample ID: 500-108434-14**

**Date Collected: 03/07/16 12:30**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Isophorone	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
<b>Phenanthrene</b>	<b>33</b>	<b>J</b>	38	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Phenol	<190		190	85	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
<b>Pyrene</b>	<b>21</b>	<b>J *</b>	38	7.6	ug/Kg	☼	03/08/16 16:15	03/10/16 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/08/16 16:15	03/10/16 16:14	1
2-Fluorobiphenyl	82		25 - 119				03/08/16 16:15	03/10/16 16:14	1
2-Fluorophenol	54		25 - 110				03/08/16 16:15	03/10/16 16:14	1
Nitrobenzene-d5	83		25 - 115				03/08/16 16:15	03/10/16 16:14	1
Phenol-d5	58		31 - 110				03/08/16 16:15	03/10/16 16:14	1
Terphenyl-d14	167	X *	36 - 134				03/08/16 16:15	03/10/16 16:14	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		03/10/16 14:50	03/11/16 16:15	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
<b>Iron</b>	<b>0.27</b>	<b>J</b>	0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:15	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:15	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:15	1
<b>Zinc</b>	<b>0.20</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:15	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
<b>Iron</b>	<b>5.0</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:31	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R34-1(0-1)-030716**

**Lab Sample ID: 500-108434-14**

Date Collected: 03/07/16 12:30

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 81.8

**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		03/11/16 08:51	03/11/16 23:31	1
<b>Zinc</b>	<b>0.16</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:31	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	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Arsenic</b>	<b>2.7</b>		0.59	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Barium</b>	<b>33</b>		0.59	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Beryllium</b>	<b>0.36</b>		0.23	0.051	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Cadmium</b>	<b>0.22</b>		0.12	0.034	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Calcium</b>	<b>2300</b>	<b>B</b>	12	3.8	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Chromium</b>	<b>7.2</b>	<b>B</b>	2.9	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Cobalt</b>	<b>2.1</b>		0.29	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Copper</b>	<b>5.5</b>		0.59	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Iron</b>	<b>7100</b>		12	4.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Lead</b>	<b>10</b>		0.29	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Magnesium</b>	<b>1200</b>		5.9	2.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Manganese</b>	<b>74</b>		0.59	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Nickel</b>	<b>5.4</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Potassium</b>	<b>260</b>		29	4.8	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Sodium</b>	<b>890</b>		59	7.8	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Vanadium</b>	<b>13</b>		0.29	0.086	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	1
<b>Zinc</b>	<b>30</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	03/09/16 15:56	03/10/16 22:37	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		03/10/16 20:00	03/12/16 16:17	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		03/10/16 20:00	03/12/16 17:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	19	9.7	ug/Kg	☼	03/09/16 14:00	03/11/16 14:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.63</b>		0.200	0.200	SU			03/09/16 15:15	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key										
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other									
Project Name		Lab Project #		# of Containers		Matrix		Comments										
100T040-IL Route 113																		
Project Location/State		Lab PM																
Braidwood, IL		D Wright																
Sampler																		
M. Bohony Skubic																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH							
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X							
2		BR7-8(0-1)-030716		0853														
3		BR7-9(0-1)-030716		0915														
4		BR7-10(0-1)-030716		0927														
5		BR7-11(0-1)-030716		0938														
6		BR7-12(0-1)-030716		0947														
7		FS-1(0-1)-030716		1010														
8		FS-2(0-1)-030716		1025														
9		WL4-1(0-1)-030716		1047														
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X							

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

*Per contract*

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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

Matrix Key  
WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH		
Project Location/State		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	Comments							
Weston Solutions		02056-04-040-0030		7 7 7 7 7								
IDOT 040-IL Route 113												
Brandwood Dr												
M. Doherty-Skubic		D. Wright										
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	X	
12		AL32-1(0-1)-030716		1203								
13		GL33-1(0-1)-030716		1220								
14		R34-1(0-1)-030716		1230								
15		F36-1(0-1)-030716		1250								
16		F36-1(0-1)-030716 D		1250								
17		AL32-2(0-1)-030716		1305								
18		F40-1(0-1)-030716		1335								
19		F40-2(0-1)-030716		1350								
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22511 W. IL 113, (ISGS Site No. 2948-36)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261321529 Longitude: -88.153977003  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261321529 Longitude: -88.153977003

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 F36-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-36. SEE FIGURE 3-5 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: 500-108434-1.  
ALSO SEE FIGURES 4-5 AND 4-6 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:



5 MAY 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-36**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F36-1(0-1)-030716	F36-1(0-1)-030716D	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	
Location ID	F36-1	F36-1	
Depth	0 - 1	0 - 1	
Location Code	2948-36	2948-36	
<b>Parameter</b>			
Laboratory pH	8.25	7.92	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	28 J	20 J	900 / 1100 / 1800
Benzo(a)pyrene	46 J	28 J	90 / 1300 / 2100
Benzo(b)fluoranthene	64 J	45 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	16 J	15 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.9	1.9	11.3 / 13
Barium, Total	23	23	1500
Beryllium, Total	0.29	0.31	22
Cadmium, Total	0.12	0.11	5.2
Calcium, Total	12000 J	11000 J	---
Chromium, Total	ND	ND	21
Iron, Total	5400 J+	5400 J+	15000 / 15900
Lead, Total	17 J	14 J	107
Manganese, Total	120 J	140 J	630 / 636
Mercury, Total	0.013 J	ND	0.89
Nickel, Total	4.5 B	4.5 B	100
Potassium, Total	230 J+	230 J+	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	20 B	20 B	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.22 J	0.21 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.2	1.1	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	0.4 J	1.5 J	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.16 J	0.17 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.017 J	0.018 J	0.1
Iron, SPLP	12	13	5
Lead, SPLP	0.024	0.022	0.0075
Manganese, SPLP	0.12	0.13	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.011 J	0.013 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.67	0.33 J	5

**Summary Table of ISGS Site No. 2948-36**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
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Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 AM

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716**

**Lab Sample ID: 500-108434-15**

**Date Collected: 03/07/16 12:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 17:44	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 17:44	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/08/16 17:44	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 17:44	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/08/16 17:44	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/08/16 17:44	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 17:44	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/08/16 17:44	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/08/16 17:44	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 17:44	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 17:44	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/08/16 17:44	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 17:44	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/08/16 17:44	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/08/16 17:44	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 17:44	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/08/16 17:44	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 17:44	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/08/16 17:44	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/08/16 17:44	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/08/16 17:44	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 17:44	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/08/16 17:44	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 17:44	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/08/16 17:44	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 17:44	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/08/16 17:44	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/08/16 17:44	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/08/16 17:44	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 17:44	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/08/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/08/16 17:44	1
Dibromofluoromethane	102		75 - 120		03/08/16 17:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/08/16 17:44	1
Toluene-d8 (Surr)	106		75 - 122		03/08/16 17:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716**

**Lab Sample ID: 500-108434-15**

**Date Collected: 03/07/16 12:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Methylnaphthalene	<38		38	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Benzo[a]anthracene</b>	<b>28</b>	<b>J</b>	38	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Benzo[a]pyrene</b>	<b>46</b>	<b>*</b>	38	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Benzo[b]fluoranthene</b>	<b>64</b>	<b>*</b>	38	8.2	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Benzo[g,h,i]perylene</b>	<b>28</b>	<b>J *</b>	38	12	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Benzo[k]fluoranthene</b>	<b>25</b>	<b>J *</b>	38	11	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Carbazole	<190		190	94	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Chrysene</b>	<b>37</b>	<b>J</b>	38	10	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Dibenz(a,h)anthracene	<38	<b>*</b>	38	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Fluoranthene</b>	<b>50</b>		38	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716**

**Lab Sample ID: 500-108434-15**

Date Collected: 03/07/16 12:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.4

**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>16</b>	<b>J*</b>	38	9.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Phenanthrene</b>	<b>42</b>		38	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
Phenol	<190		190	84	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1
<b>Pyrene</b>	<b>57</b>		38	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137	03/08/16 16:15	03/10/16 19:19	1
2-Fluorobiphenyl	76		25 - 119	03/08/16 16:15	03/10/16 19:19	1
2-Fluorophenol	81		25 - 110	03/08/16 16:15	03/10/16 19:19	1
Nitrobenzene-d5	81		25 - 115	03/08/16 16:15	03/10/16 19:19	1
Phenol-d5	85		31 - 110	03/08/16 16:15	03/10/16 19:19	1
Terphenyl-d14	116		36 - 134	03/08/16 16:15	03/10/16 19:19	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:22	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:22	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:22	1
<b>Zinc</b>	<b>0.40</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:22	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		03/11/16 08:51	03/11/16 23:37	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:37	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Iron</b>	<b>12</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Lead</b>	<b>0.024</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:37	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716**

**Lab Sample ID: 500-108434-15**

Date Collected: 03/07/16 12:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.4

**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		03/11/16 08:51	03/11/16 23:37	1
<b>Zinc</b>	<b>0.67</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:37	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	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Arsenic</b>	<b>1.9</b>		0.54	0.25	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Barium</b>	<b>23</b>		0.54	0.098	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Beryllium</b>	<b>0.29</b>		0.21	0.046	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.031	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Chromium</b>	<b>5.5</b>	<b>B</b>	2.7	0.092	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Cobalt</b>	<b>1.8</b>		0.27	0.061	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Copper</b>	<b>3.7</b>		0.54	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Iron</b>	<b>5400</b>		11	4.1	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Lead</b>	<b>17</b>		0.27	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Magnesium</b>	<b>6900</b>		5.4	2.2	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Manganese</b>	<b>120</b>		0.54	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Nickel</b>	<b>4.5</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Potassium</b>	<b>230</b>		27	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Sodium</b>	<b>590</b>		54	7.1	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Vanadium</b>	<b>11</b>		0.27	0.078	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1
<b>Zinc</b>	<b>20</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	03/09/16 15:56	03/10/16 22:42	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:19	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		03/10/16 20:00	03/12/16 17:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	18	9.2	ug/Kg	☼	03/09/16 14:00	03/11/16 14:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.25</b>		0.200	0.200	SU			03/09/16 15:19	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716D**

**Lab Sample ID: 500-108434-16**

**Date Collected: 03/07/16 12:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.5	ug/Kg	☼		03/08/16 18:09	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 18:09	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/08/16 18:09	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 18:09	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/08/16 18:09	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/08/16 18:09	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 18:09	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/08/16 18:09	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/08/16 18:09	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 18:09	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/08/16 18:09	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/08/16 18:09	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 18:09	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/08/16 18:09	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/08/16 18:09	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 18:09	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/08/16 18:09	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 18:09	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/08/16 18:09	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/08/16 18:09	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/08/16 18:09	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 18:09	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/08/16 18:09	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/08/16 18:09	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/08/16 18:09	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/08/16 18:09	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/08/16 18:09	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/08/16 18:09	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/08/16 18:09	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/08/16 18:09	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/08/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		03/08/16 18:09	1
Dibromofluoromethane	104		75 - 120		03/08/16 18:09	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/08/16 18:09	1
Toluene-d8 (Surr)	105		75 - 122		03/08/16 18:09	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	☼	03/08/16 16:15	03/10/16 19:48	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716D**

**Lab Sample ID: 500-108434-16**

**Date Collected: 03/07/16 12:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Benzo[a]anthracene</b>	<b>20</b>	<b>J</b>	37	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Benzo[a]pyrene</b>	<b>28</b>	<b>J *</b>	37	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Benzo[b]fluoranthene</b>	<b>45</b>	<b>*</b>	37	8.1	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Benzo[g,h,i]perylene</b>	<b>21</b>	<b>J *</b>	37	12	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Benzo[k]fluoranthene</b>	<b>17</b>	<b>J *</b>	37	11	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Carbazole	<190		190	94	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Chrysene</b>	<b>24</b>	<b>J</b>	37	10	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Dibenz(a,h)anthracene	<37	<b>*</b>	37	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Fluoranthene</b>	<b>30</b>	<b>J</b>	37	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716D**

**Lab Sample ID: 500-108434-16**

Date Collected: 03/07/16 12:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.1

### 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>15</b>	<b>J*</b>	37	9.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Phenanthrene</b>	<b>37</b>		37	5.3	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
Phenol	<190		190	84	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	1
<b>Pyrene</b>	<b>44</b>		37	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 19:48	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	82		35 - 137				03/08/16 16:15	03/10/16 19:48	1
2-Fluorobiphenyl	80		25 - 119				03/08/16 16:15	03/10/16 19:48	1
2-Fluorophenol	80		25 - 110				03/08/16 16:15	03/10/16 19:48	1
Nitrobenzene-d5	67		25 - 115				03/08/16 16:15	03/10/16 19:48	1
Phenol-d5	84		31 - 110				03/08/16 16:15	03/10/16 19:48	1
Terphenyl-d14	142	X	36 - 134				03/08/16 16:15	03/10/16 19:48	1

### Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:29	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:29	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:29	1
<b>Zinc</b>	<b>1.5</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:29	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		03/11/16 08:51	03/11/16 23:44	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Chromium</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Iron</b>	<b>13</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:44	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F36-1(0-1)-030716D**

**Lab Sample ID: 500-108434-16**

Date Collected: 03/07/16 12:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.1

**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		03/11/16 08:51	03/11/16 23:44	1
<b>Zinc</b>	<b>0.33</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:44	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	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Arsenic</b>	<b>1.9</b>		0.57	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Barium</b>	<b>23</b>		0.57	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Beryllium</b>	<b>0.31</b>		0.23	0.049	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.033	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	11	3.7	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Chromium</b>	<b>5.4</b>	<b>B</b>	2.8	0.098	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Cobalt</b>	<b>1.8</b>		0.28	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Copper</b>	<b>3.5</b>		0.57	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Iron</b>	<b>5400</b>		11	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Magnesium</b>	<b>6100</b>		5.7	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Manganese</b>	<b>140</b>		0.57	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Nickel</b>	<b>4.5</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Potassium</b>	<b>230</b>		28	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Sodium</b>	<b>580</b>		57	7.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Vanadium</b>	<b>10</b>		0.28	0.083	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	1
<b>Zinc</b>	<b>20</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 15:56	03/10/16 22:46	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		03/10/16 20:00	03/12/16 16:25	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		03/10/16 20:00	03/12/16 17:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	9.9	ug/Kg	☼	03/09/16 14:00	03/11/16 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.92</b>		0.200	0.200	SU			03/09/16 15:23	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key										
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other									
Project Name		Lab Project #		# of Containers		Matrix		Comments										
100T040-IL Route 113																		
Project Location/State		Lab PM																
Braidwood, IL		D Wright																
Sampler																		
M. Bohony-Skubic																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH							
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X							
2		BR7-8(0-1)-030716		0853														
3		BR7-9(0-1)-030716		0915														
4		BR7-10(0-1)-030716		0927														
5		BR7-11(0-1)-030716		0938														
6		BR7-12(0-1)-030716		0947														
7		FS-1(0-1)-030716		1010														
8		FS-2(0-1)-030716		1025														
9		WL4-1(0-1)-030716		1047														
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X							

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

Per Client 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH	
Project Location/State		Lab PM									
Sampler											
Lab ID	MS/MSD	Sample ID	Date	Time							Comments
Weston Solutions		02056-04-040-0030		7	7	7	7	7			
IDOT 040-IL Route 113											
Brandwood Dr											
M. Doherty-Skubic		D. Wright									
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22500 Block of W. IL 113, (ISGS Site No. 2948-37)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261481141 Longitude: -88.151311522

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261481141 Longitude: -88.151311522

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 W37-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-37. SEE FIGURE 3-6 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: 500-108762-1.  
ALSO SEE FIGURE 4-6 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:

5 May 2010

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-37**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	W37-1(0-1)-031416	<b>Soil Reference Concentrations</b>
Sample Date	3/14/2016	
Location ID	W37-1	
Depth	0 - 1	
Location Code	2948-37	
Parameter		
Laboratory pH	7.85	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	15 J	900 / 1100 / 1800
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	2.1 J-	11.3 / 13
Barium, Total	29 J-	1500
Beryllium, Total	0.31 J-	22
Cadmium, Total	0.1 J-	5.2
Calcium, Total	4300 J-	---
Chromium, Total	6.6	21
Iron, Total	6500 J+	15000 / 15900
Lead, Total	25	107
Manganese, Total	78 J-	630 / 636
Mercury, Total	0.02 J	0.89
Nickel, Total	5	100
Potassium, Total	260 J+	---
Selenium, Total	0.39 J	1.3
Silver, Total	ND	4.4
Zinc, Total	73 J+	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.14 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.67	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.21 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.18 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.28 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.03	0.1
Iron, SPLP	19	5
Lead, SPLP	0.063	0.0075
Manganese, SPLP	0.14	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.017 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	2.1 B	5

**Summary Table of ISGS Site No. 2948-37**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: W37-1(0-1)-031416**

**Lab Sample ID: 500-108762-13**

**Date Collected: 03/14/16 15:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/16/16 16:05	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/16/16 16:05	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/16/16 16:05	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:05	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:05	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/16/16 16:05	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/16/16 16:05	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/16/16 16:05	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/16/16 16:05	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/16/16 16:05	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/16/16 16:05	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/16/16 16:05	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/16/16 16:05	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/16/16 16:05	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/16/16 16:05	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/16/16 16:05	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/16/16 16:05	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/16/16 16:05	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/16/16 16:05	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/16/16 16:05	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/16/16 16:05	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/16/16 16:05	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/16/16 16:05	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 16:05	1
Dibromofluoromethane	105		75 - 120		03/16/16 16:05	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 16:05	1
Toluene-d8 (Surr)	112		75 - 122		03/16/16 16:05	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: W37-1(0-1)-031416**

**Lab Sample ID: 500-108762-13**

**Date Collected: 03/14/16 15:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.7**

**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	☼	03/17/16 07:00	03/25/16 11:34	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Acenaphthylene</b>	<b>5.7 J</b>		39	5.2	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Anthracene	<39		39	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Benzo[a]anthracene</b>	<b>15 J</b>		39	5.3	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Benzo[a]pyrene	<39 *		39	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Benzo[b]fluoranthene	<39 *		39	8.5	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Benzo[g,h,i]perylene	<39 *		39	13	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Benzo[k]fluoranthene	<39 *		39	12	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Carbazole	<200		200	99	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Chrysene</b>	<b>20 J</b>		39	11	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Dibenz(a,h)anthracene	<39 *		39	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Fluoranthene</b>	<b>21 J</b>		39	7.3	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Fluorene	<39		39	5.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: W37-1(0-1)-031416**

**Lab Sample ID: 500-108762-13**

**Date Collected: 03/14/16 15:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Isophorone	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Phenanthrene</b>	<b>58</b>		39	5.5	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Phenol	<200		200	88	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
<b>Pyrene</b>	<b>40</b>		39	7.9	ug/Kg	☼	03/17/16 07:00	03/25/16 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/17/16 07:00	03/25/16 11:34	1
2-Fluorobiphenyl	88		25 - 119				03/17/16 07:00	03/25/16 11:34	1
2-Fluorophenol	75		25 - 110				03/17/16 07:00	03/25/16 11:34	1
Nitrobenzene-d5	88		25 - 115				03/17/16 07:00	03/25/16 11:34	1
Phenol-d5	31		31 - 110				03/17/16 07:00	03/25/16 11:34	1
Terphenyl-d14	131		36 - 134				03/17/16 07:00	03/25/16 11:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/25/16 00:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/25/16 00:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/25/16 00:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
<b>Iron</b>	<b>0.67</b>		0.40	0.20	mg/L		03/22/16 14:29	03/25/16 00:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/25/16 00:00	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/25/16 00:00	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/25/16 00:00	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/25/16 00:00	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		03/23/16 14:51	03/25/16 03:34	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:23	1
<b>Chromium</b>	<b>0.030</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:23	1
<b>Copper</b>	<b>0.053</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:34	1
<b>Iron</b>	<b>19</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:34	1
<b>Lead</b>	<b>0.063</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:23	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:34	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: W37-1(0-1)-031416**

**Lab Sample ID: 500-108762-13**

**Date Collected: 03/14/16 15:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 83.7**

**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		03/23/16 14:51	03/25/16 03:34	1
<b>Zinc</b>	<b>2.1</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Arsenic</b>	<b>2.1</b>		0.50	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Barium</b>	<b>29</b>		0.50	0.091	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Beryllium</b>	<b>0.31</b>		0.20	0.043	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Cadmium</b>	<b>0.10</b>		0.099	0.029	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Calcium</b>	<b>4300</b>		9.9	3.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Chromium</b>	<b>6.6</b>		0.50	0.085	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Cobalt</b>	<b>2.1</b>		0.25	0.056	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Copper</b>	<b>18</b>		0.50	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Iron</b>	<b>6500</b>	<b>B</b>	9.9	3.8	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Lead</b>	<b>25</b>		0.25	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Magnesium</b>	<b>2200</b>		5.0	2.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Manganese</b>	<b>78</b>	<b>B</b>	0.50	0.098	mg/Kg	☼	03/18/16 09:23	03/24/16 13:24	1
<b>Nickel</b>	<b>5.0</b>		0.50	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Potassium</b>	<b>260</b>		25	4.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.50	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Sodium</b>	<b>1600</b>		50	6.6	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Vanadium</b>	<b>12</b>		0.25	0.073	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	1
<b>Zinc</b>	<b>73</b>		0.99	0.31	mg/Kg	☼	03/18/16 09:23	03/24/16 02:37	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		03/23/16 09:00	03/23/16 18:51	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		03/23/16 17:00	03/24/16 12:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>20</b>		18	9.6	ug/Kg	☼	03/21/16 15:30	03/23/16 00:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.85</b>		0.200	0.200	SU			03/17/16 15:54	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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. Babuszekumar  
Company: Waxton  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>Waxton</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Project Location/State		Lab Project #		Lab PM												Comments		
<u>IDOT-040</u>		<u>Bradwood &amp; Galev R/W / IL</u>				<u>D. Wright</u>														
Sampler		Sample ID		Sampling		# of Containers		Matrix												
<u>T. Walls</u>				Date Time																
<u>11</u>	<u>MS/MSD</u>	<u>R39-4(0-1)-031416</u>		<u>3-14-16</u>	<u>1535</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>12</u>		<u>R39-5(0-1)-031416</u>			<u>1545</u>															
<u>13</u>		<u>W037-1(0-1)-031416</u>			<u>1555</u>															
<u>14</u>		<u>AL32-3(0-1)-031416</u>			<u>1605</u>															
<u>15</u>		<u>AL32-4(0-1)-031416</u>			<u>1615</u>															
<u>16</u>		<u>AL32-5(0-1)-031416</u>			<u>1620</u>															
<u>17</u>		<u>F30-1(0-1)-031416</u>		<u>3-14-16</u>	<u>1630</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<del><u>7. Walls 3-14-16</u></del>																				

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Waxton</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CERT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22324- 22364 W. IL 113 (ISGS Site No. 2948-39)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261586255 Longitude: -88.148381497  
(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: FAU 327: Illinois Route 113Latitude: 41.261586255 Longitude: -88.148381497Uncontaminated 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 R39-1 THROUGH R39-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-39. SEE FIGURE 3-6 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: 500-108434-1 AND 500-108762-1.  
ALSO SEE FIGURE 4-6 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-39**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R39-1(0-1)-030716	R39-2(0-1)-031416	R39-3(0-1)-031416	R39-3(0-1)-031416D	R39-4(0-1)-031416	R39-5(0-1)-031416	Soil Reference Concentrations
Sample Date	3/7/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R39-1	R39-2	R39-3	R39-3	R39-4	R39-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-39	2948-39	2948-39	2948-39	2948-39	2948-39	
<b>Parameter</b>							
Laboratory pH	8.3	8.02	8.21	8.33	8.41	8.45	<6.25,>9.0
<b>VOCs (ug/kg)</b>							
Acetone	ND	ND	ND	ND	ND	38	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	6.2	---
<b>SVOCs (ug/kg)</b>							
Benzo(a)anthracene	ND	ND	120 J	8 J	ND	84 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	220 J	ND	ND	130 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	340 J	ND	ND	180 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	ND	52 J	ND	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	ND	120 J	ND	ND	59 J+	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>							
Arsenic, Total	1.6	2.6 J-	1.8 J-	2 J-	2.2 J-	1.7 J-	11.3 / 13
Barium, Total	12	21 J-	13 J-	13 J-	6 J-	20 J-	1500
Beryllium, Total	0.18 J	0.14 J	0.17 J	0.17 J	0.13 J	0.31 J-	22
Cadmium, Total	0.06 J	0.071 J	0.079 J	0.069 J	ND	0.15 J-	5.2
Calcium, Total	5300 J	2000 J-	14000 J-	9800 J-	1500 J-	22000 J-	---
Chromium, Total	ND	4.6	5.5	5.3	4.8	5.5	21
Iron, Total	5000 J+	5800 J+	5900 J+	5700 J+	5600 J+	8000 J+	15000 / 15900
Lead, Total	10 J	5.6	7.6	7.5	3.1	41	107
Manganese, Total	54 J	150 J-	96 J-	90 J-	45 J-	100 J-	630 / 636
Mercury, Total	ND	0.0094 J	ND	0.011 J	0.051 J	0.012 J	0.89
Nickel, Total	4.5 B	4.2	4.5	4.5	3	5.8	100
Potassium, Total	180 J+	330 J+	230 J+	210 J+	140 J+	320 J+	---
Selenium, Total	ND	ND	ND	ND	ND	0.25 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	13 B	16 J+	16 J+	15 J+	8.5 J+	27 J+	5100
<b>TCLP Metals (mg/l)</b>							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.15 J	0.16 J	0.16 J	0.17 J	0.05 J	0.21 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	1.4	ND	ND	ND	ND	5
Lead, TCLP	0.0081	ND	ND	ND	ND	0.031	0.0075
Manganese, TCLP	0.74	0.17 J+	1 J+	1.3 J+	0.09 J+	1.8 J+	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.37 J	0.023 J	0.03 J	0.031 J	ND	0.13 J	5

**Summary Table of ISGS Site No. 2948-39**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R39-1(0-1)-030716	R39-2(0-1)-031416	R39-3(0-1)-031416	R39-3(0-1)-031416D	R39-4(0-1)-031416	R39-5(0-1)-031416	Soil Reference Concentrations
Sample Date	3/7/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R39-1	R39-2	R39-3	R39-3	R39-4	R39-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-39	2948-39	2948-39	2948-39	2948-39	2948-39	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	ND	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.11 J	0.34 J	0.23 J	0.11 J	ND	0.15 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.017 J	0.037	0.02 J	0.031	0.021 J	ND	0.1
Iron, SPLP	13	35	14 J	29 J	26	2.4	5
Lead, SPLP	0.038	0.044	0.024 J	0.047 J	0.019	0.031	0.0075
Manganese, SPLP	0.098	0.54	0.11 J	0.27 J	0.19	0.068	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.014 J	0.028	0.015 J	0.022 J	0.01 J	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.49 J	0.27 J	0.18 J	0.87 B	0.63 B	0.21 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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.*

- 1
- 2
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R39-1(0-1)-030716**

**Lab Sample ID: 500-108434-20**

**Date Collected: 03/07/16 14:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 11:22	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 11:22	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/09/16 11:22	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 11:22	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 11:22	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/09/16 11:22	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 11:22	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 11:22	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/09/16 11:22	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/09/16 11:22	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 11:22	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 11:22	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 11:22	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 11:22	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/09/16 11:22	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 11:22	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/09/16 11:22	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 11:22	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 11:22	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 11:22	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 11:22	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 11:22	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 11:22	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 11:22	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/09/16 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/09/16 11:22	1
Dibromofluoromethane	98		75 - 120		03/09/16 11:22	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/09/16 11:22	1
Toluene-d8 (Surr)	112		75 - 122		03/09/16 11:22	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	☼	03/08/16 16:15	03/10/16 17:25	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R39-1(0-1)-030716**

**Lab Sample ID: 500-108434-20**

**Date Collected: 03/07/16 14:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Benzo[a]anthracene	<36 *		36	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Benzo[a]pyrene	<36 *		36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Benzo[b]fluoranthene	<36 *		36	7.9	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Chrysene	<36 *		36	10	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
<b>Fluoranthene</b>	<b>10 J</b>		36	6.8	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R39-1(0-1)-030716**

**Lab Sample ID: 500-108434-20**

**Date Collected: 03/07/16 14:03**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 86.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.5	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
<b>Phenanthrene</b>	<b>24</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1
<b>Pyrene</b>	<b>34</b>	<b>J *</b>	36	7.3	ug/Kg	☼	03/08/16 16:15	03/10/16 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137	03/08/16 16:15	03/10/16 17:25	1
2-Fluorobiphenyl	75		25 - 119	03/08/16 16:15	03/10/16 17:25	1
2-Fluorophenol	65		25 - 110	03/08/16 16:15	03/10/16 17:25	1
Nitrobenzene-d5	68		25 - 115	03/08/16 16:15	03/10/16 17:25	1
Phenol-d5	57		31 - 110	03/08/16 16:15	03/10/16 17:25	1
Terphenyl-d14	196	X *	36 - 134	03/08/16 16:15	03/10/16 17:25	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 17:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 17:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 17:11	1
<b>Lead</b>	<b>0.0081</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 17:11	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 17:11	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:11	1
<b>Zinc</b>	<b>0.37</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 17:11	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		03/11/16 08:51	03/12/16 00:27	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/12/16 00:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/12/16 00:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Iron</b>	<b>13</b>		0.40	0.20	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Manganese</b>	<b>0.098</b>		0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:27	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/12/16 00:27	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: R39-1(0-1)-030716**

**Lab Sample ID: 500-108434-20**

Date Collected: 03/07/16 14:03

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 86.6

**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		03/11/16 08:51	03/12/16 00:27	1
<b>Zinc</b>	<b>0.49</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/12/16 00:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Arsenic</b>	<b>1.6</b>		0.55	0.25	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Barium</b>	<b>12</b>		0.55	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Beryllium</b>	<b>0.18</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Cadmium</b>	<b>0.060</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Calcium</b>	<b>5300</b>	<b>B F2</b>	11	3.5	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Chromium</b>	<b>6.0</b>	<b>B</b>	2.7	0.094	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Cobalt</b>	<b>1.7</b>		0.27	0.062	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Copper</b>	<b>2.3</b>		0.55	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Iron</b>	<b>5000</b>		11	4.2	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Lead</b>	<b>10</b>	<b>F1 F2</b>	0.27	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Magnesium</b>	<b>3100</b>	<b>F2</b>	5.5	2.2	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Manganese</b>	<b>54</b>	<b>F1 F2</b>	0.55	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Nickel</b>	<b>4.5</b>	<b>B</b>	0.55	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Potassium</b>	<b>180</b>	<b>F1</b>	27	4.5	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Sodium</b>	<b>250</b>		55	7.2	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Vanadium</b>	<b>9.9</b>		0.27	0.080	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	1
<b>Zinc</b>	<b>13</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	03/09/16 15:56	03/10/16 23:12	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		03/10/16 20:00	03/12/16 16:33	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 17:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/09/16 14:00	03/11/16 14:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.30</b>		0.200	0.200	SU			03/09/16 15:43	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
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. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCUP/SPUR METALS	PH	
Project Location/State		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	Comments						
Weston Solutions		02056-04-040-0030		7	7	7	7	7			
IDOT 040-IL Route 113											
Brandwood Dr		D. Wright									
M. Doherty-Skubic											
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	
12		AL32-1(0-1)-030716		1203							
13		GL33-1(0-1)-030716		1220							
14		R34-1(0-1)-030716		1230							
15		F36-1(0-1)-030716		1250							
16		F36-1(0-1)-030716 D		1250							
17		AL32-2(0-1)-030716		1305							
18		F40-1(0-1)-030716		1335							
19		F40-2(0-1)-030716		1350							
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-2(0-1)-031416**

**Lab Sample ID: 500-108762-8**

**Date Collected: 03/14/16 15:10**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 13:59	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 13:59	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/16/16 13:59	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 13:59	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 13:59	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 13:59	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 13:59	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/16/16 13:59	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 13:59	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 13:59	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/16/16 13:59	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 13:59	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 13:59	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 13:59	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 13:59	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 13:59	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 13:59	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 13:59	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/16/16 13:59	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 13:59	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 13:59	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 13:59	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 13:59	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/16/16 13:59	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 13:59	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 13:59	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 13:59	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 13:59	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 13:59	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/16/16 13:59	1
Dibromofluoromethane	104		75 - 120		03/16/16 13:59	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/16/16 13:59	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 13:59	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	☼	03/17/16 07:00	03/25/16 12:50	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-2(0-1)-031416**

**Lab Sample ID: 500-108762-8**

**Date Collected: 03/14/16 15:10**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.4**

**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	☼	03/17/16 07:00	03/25/16 12:50	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
3,3'-Dichlorobenzidine	<180 *		180	49	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Benzo[a]anthracene	<35 *		35	4.7	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Benzo[a]pyrene	<35 *		35	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Benzo[b]fluoranthene	<35 *		35	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Benzo[g,h,i]perylene	<35 *		35	11	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Benzo[k]fluoranthene	<35 *		35	10	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Bis(2-ethylhexyl) phthalate	<180 *		180	64	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Butyl benzyl phthalate	<180 *		180	67	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Carbazole	<180		180	88	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Chrysene	<35 *		35	9.6	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Dibenz(a,h)anthracene	<35 *		35	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Fluoranthene	<35		35	6.5	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-2(0-1)-031416**

**Lab Sample ID: 500-108762-8**

**Date Collected: 03/14/16 15:10**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.1	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Isophorone	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Phenol	<180		180	78	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
Pyrene	<35	*	35	7.0	ug/Kg	☼	03/17/16 07:00	03/25/16 12:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	53		35 - 137				03/17/16 07:00	03/25/16 12:50	1
<i>2-Fluorobiphenyl</i>	74		25 - 119				03/17/16 07:00	03/25/16 12:50	1
<i>2-Fluorophenol</i>	72		25 - 110				03/17/16 07:00	03/25/16 12:50	1
<i>Nitrobenzene-d5</i>	98		25 - 115				03/17/16 07:00	03/25/16 12:50	1
<i>Phenol-d5</i>	44		31 - 110				03/17/16 07:00	03/25/16 12:50	1
<i>Terphenyl-d14</i>	162	X *	36 - 134				03/17/16 07:00	03/25/16 12:50	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		03/22/16 14:29	03/24/16 23:34	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
<b>Iron</b>	<b>1.4</b>		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:34	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:34	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:34	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:34	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		03/23/16 14:51	03/25/16 03:13	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:55	1
<b>Chromium</b>	<b>0.037</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:55	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:13	1
<b>Iron</b>	<b>35</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:13	1
<b>Lead</b>	<b>0.044</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:55	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:13	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-2(0-1)-031416**

**Lab Sample ID: 500-108762-8**

**Date Collected: 03/14/16 15:10**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.4**

**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		03/23/16 14:51	03/25/16 03:13	1
<b>Zinc</b>	<b>0.27</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:13	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	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Arsenic</b>	<b>2.6</b>		0.53	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Barium</b>	<b>21</b>		0.53	0.097	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Cadmium</b>	<b>0.071</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Calcium</b>	<b>2000</b>		11	3.4	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Chromium</b>	<b>4.6</b>		0.53	0.091	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Cobalt</b>	<b>2.3</b>		0.26	0.060	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Copper</b>	<b>3.9</b>		0.53	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Iron</b>	<b>5800</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Lead</b>	<b>5.6</b>		0.26	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Magnesium</b>	<b>1200</b>		5.3	2.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Manganese</b>	<b>150</b>	<b>B</b>	0.53	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 12:54	1
<b>Nickel</b>	<b>4.2</b>		0.53	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Potassium</b>	<b>330</b>		26	4.3	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Sodium</b>	<b>190</b>		53	7.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Vanadium</b>	<b>8.5</b>		0.26	0.077	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	1
<b>Zinc</b>	<b>16</b>		1.1	0.33	mg/Kg	☼	03/18/16 09:23	03/24/16 02:16	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		03/23/16 09:00	03/23/16 18:41	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>9.4</b>	<b>J</b>	16	8.5	ug/Kg	☼	03/21/16 15:30	03/23/16 00:19	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			03/17/16 15:27	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416**

**Lab Sample ID: 500-108762-9**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 14:24	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 14:24	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 14:24	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 14:24	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 14:24	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 14:24	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 14:24	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 14:24	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 14:24	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 14:24	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 14:24	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 14:24	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 14:24	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 14:24	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 14:24	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 14:24	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 14:24	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 14:24	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 14:24	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 14:24	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 14:24	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 14:24	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 14:24	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 14:24	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 14:24	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 14:24	1
Dibromofluoromethane	104		75 - 120		03/16/16 14:24	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/16/16 14:24	1
Toluene-d8 (Surr)	110		75 - 122		03/16/16 14:24	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	☼	03/17/16 07:00	03/28/16 12:13	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416**

**Lab Sample ID: 500-108762-9**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

**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	☼	03/17/16 07:00	03/28/16 12:13	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Acenaphthylene</b>	<b>200</b>		37	4.9	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Anthracene</b>	<b>30 J</b>		37	6.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Benzo[a]anthracene</b>	<b>120</b>		37	5.0	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Benzo[a]pyrene</b>	<b>220 *</b>		37	7.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Benzo[b]fluoranthene</b>	<b>340 *</b>		37	8.0	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Benzo[g,h,i]perylene</b>	<b>190 *</b>		37	12	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Benzo[k]fluoranthene</b>	<b>110 *</b>		37	11	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Carbazole	<190		190	92	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Chrysene</b>	<b>170</b>		37	10	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Dibenz(a,h)anthracene</b>	<b>52 *</b>		37	7.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Fluoranthene</b>	<b>82</b>		37	6.9	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416**

**Lab Sample ID: 500-108762-9**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

## 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>120</b>	*	37	9.6	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Isophorone	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Phenanthrene</b>	<b>50</b>		37	5.2	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Phenol	<190		190	82	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
<b>Pyrene</b>	<b>140</b>		37	7.4	ug/Kg	☼	03/17/16 07:00	03/28/16 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		35 - 137				03/17/16 07:00	03/28/16 12:13	1
2-Fluorobiphenyl	99		25 - 119				03/17/16 07:00	03/28/16 12:13	1
2-Fluorophenol	76		25 - 110				03/17/16 07:00	03/28/16 12:13	1
Nitrobenzene-d5	94		25 - 115				03/17/16 07:00	03/28/16 12:13	1
Phenol-d5	76		31 - 110				03/17/16 07:00	03/28/16 12:13	1
Terphenyl-d14	137	X	36 - 134				03/17/16 07:00	03/28/16 12:13	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		03/22/16 14:29	03/24/16 23:39	1
<b>Barium</b>	<b>0.16</b>	J	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:39	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:39	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:39	1
<b>Zinc</b>	<b>0.030</b>	J	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:39	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:17	1
<b>Barium</b>	<b>0.23</b>	J	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:59	1
<b>Chromium</b>	<b>0.020</b>	J	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:59	1
<b>Copper</b>	<b>0.014</b>	J	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:17	1
<b>Iron</b>	<b>14</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:17	1
<b>Lead</b>	<b>0.024</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:59	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:17	1
<b>Nickel</b>	<b>0.015</b>	J	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416**

**Lab Sample ID: 500-108762-9**

Date Collected: 03/14/16 15:25

Matrix: Solid

Date Received: 03/14/16 17:25

Percent Solids: 87.5

**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		03/23/16 14:51	03/25/16 03:17	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Arsenic</b>	<b>1.8</b>		0.49	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Barium</b>	<b>13</b>		0.49	0.090	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.20	0.043	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Cadmium</b>	<b>0.079</b>	<b>J</b>	0.098	0.028	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Calcium</b>	<b>14000</b>		9.8	3.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Chromium</b>	<b>5.5</b>		0.49	0.085	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Cobalt</b>	<b>1.9</b>		0.25	0.056	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Copper</b>	<b>2.6</b>		0.49	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Iron</b>	<b>5900</b>	<b>B</b>	9.8	3.8	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Lead</b>	<b>7.6</b>		0.25	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Magnesium</b>	<b>6400</b>		4.9	2.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Manganese</b>	<b>96</b>	<b>B</b>	0.49	0.097	mg/Kg	☼	03/18/16 09:23	03/24/16 13:07	1
<b>Nickel</b>	<b>4.5</b>		0.49	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Potassium</b>	<b>230</b>		25	4.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Sodium</b>	<b>600</b>		49	6.5	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Vanadium</b>	<b>11</b>		0.25	0.072	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	1
<b>Zinc</b>	<b>16</b>		0.98	0.31	mg/Kg	☼	03/18/16 09:23	03/24/16 02:20	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		03/23/16 09:00	03/23/16 18:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:55	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	9.8	ug/Kg	☼	03/21/16 15:30	03/23/16 00:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.21</b>		0.200	0.200	SU			03/17/16 15:32	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416D**

**Lab Sample ID: 500-108762-10**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 14:49	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/16/16 14:49	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 14:49	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 14:49	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 14:49	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 14:49	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 14:49	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 14:49	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 14:49	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 14:49	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/16/16 14:49	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 14:49	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/16/16 14:49	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 14:49	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 14:49	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 14:49	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 14:49	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 14:49	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/16/16 14:49	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 14:49	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 14:49	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 14:49	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 14:49	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 14:49	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 14:49	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 14:49	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 14:49	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 14:49	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 14:49	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/16/16 14:49	1
Dibromofluoromethane	104		75 - 120		03/16/16 14:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 14:49	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 14:49	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	☼	03/17/16 07:00	03/28/16 12:38	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416D**

**Lab Sample ID: 500-108762-10**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**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	82	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Acenaphthylene</b>	<b>13 J</b>		36	4.7	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Benzo[a]anthracene</b>	<b>8.0 J</b>		36	4.8	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Benzo[a]pyrene	<36 *		36	6.9	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Benzo[b]fluoranthene	<36 *		36	7.7	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Carbazole	<180		180	89	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Chrysene</b>	<b>13 J</b>		36	9.8	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Dibenz(a,h)anthracene	<36 *		36	6.9	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Fluoranthene</b>	<b>9.1 J</b>		36	6.6	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416D**

**Lab Sample ID: 500-108762-10**

Date Collected: 03/14/16 15:25

Matrix: Solid

Date Received: 03/14/16 17:25

Percent Solids: 88.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.3	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Isophorone	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Phenanthrene</b>	<b>13</b>	<b>J</b>	36	5.0	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Phenol	<180		180	80	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
<b>Pyrene</b>	<b>17</b>	<b>J</b>	36	7.1	ug/Kg	☼	03/17/16 07:00	03/28/16 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137				03/17/16 07:00	03/28/16 12:38	1
2-Fluorobiphenyl	95		25 - 119				03/17/16 07:00	03/28/16 12:38	1
2-Fluorophenol	82		25 - 110				03/17/16 07:00	03/28/16 12:38	1
Nitrobenzene-d5	93		25 - 115				03/17/16 07:00	03/28/16 12:38	1
Phenol-d5	77		31 - 110				03/17/16 07:00	03/28/16 12:38	1
Terphenyl-d14	130		36 - 134				03/17/16 07:00	03/28/16 12:38	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:45	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:45	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:45	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:45	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		03/23/16 14:51	03/25/16 03:22	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:03	1
<b>Chromium</b>	<b>0.031</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:03	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:22	1
<b>Iron</b>	<b>29</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:22	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:03	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:22	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-3(0-1)-031416D**

**Lab Sample ID: 500-108762-10**

**Date Collected: 03/14/16 15:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**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		03/23/16 14:51	03/25/16 03:22	1
<b>Zinc</b>	<b>0.87</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:22	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Arsenic</b>	<b>2.0</b>		0.51	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Barium</b>	<b>13</b>		0.51	0.094	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Beryllium</b>	<b>0.17</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Cadmium</b>	<b>0.069</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Calcium</b>	<b>9800</b>		10	3.3	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Chromium</b>	<b>5.3</b>		0.51	0.089	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Cobalt</b>	<b>1.9</b>		0.26	0.058	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Copper</b>	<b>2.7</b>		0.51	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Iron</b>	<b>5700</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Lead</b>	<b>7.5</b>		0.26	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Magnesium</b>	<b>5700</b>		5.1	2.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Manganese</b>	<b>90</b>	<b>B</b>	0.51	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 13:11	1
<b>Nickel</b>	<b>4.5</b>		0.51	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Potassium</b>	<b>210</b>		26	4.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Sodium</b>	<b>610</b>		51	6.8	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Vanadium</b>	<b>10</b>		0.26	0.075	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	1
<b>Zinc</b>	<b>15</b>		1.0	0.33	mg/Kg	☼	03/18/16 09:23	03/24/16 02:24	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		03/23/16 09:00	03/23/16 18:45	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		03/23/16 17:00	03/24/16 11:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>11</b>	<b>J</b>	17	9.1	ug/Kg	☼	03/21/16 15:30	03/23/16 00:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.33</b>		0.200	0.200	SU			03/17/16 15:37	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-4(0-1)-031416**

**Lab Sample ID: 500-108762-11**

**Date Collected: 03/14/16 15:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/16/16 15:15	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 15:15	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/16/16 15:15	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:15	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:15	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/16/16 15:15	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 15:15	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 15:15	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/16/16 15:15	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/16/16 15:15	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:15	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 15:15	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:15	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/16/16 15:15	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/16/16 15:15	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:15	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/16/16 15:15	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:15	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/16/16 15:15	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 15:15	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:15	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 15:15	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:15	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:15	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/16/16 15:15	1
Dibromofluoromethane	103		75 - 120		03/16/16 15:15	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 15:15	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 15:15	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	40	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-4(0-1)-031416**

**Lab Sample ID: 500-108762-11**

**Date Collected: 03/14/16 15:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	84	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Benzo[a]pyrene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Benzo[b]fluoranthene	<36 *		36	7.9	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Carbazole	<180		180	92	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Chrysene	<36		36	10	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-4(0-1)-031416**

**Lab Sample ID: 500-108762-11**

**Date Collected: 03/14/16 15:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.5	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1
Pyrene	<36		36	7.3	ug/Kg	☼	03/17/16 07:00	03/25/16 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137	03/17/16 07:00	03/25/16 11:09	1
2-Fluorobiphenyl	94		25 - 119	03/17/16 07:00	03/25/16 11:09	1
2-Fluorophenol	80		25 - 110	03/17/16 07:00	03/25/16 11:09	1
Nitrobenzene-d5	56		25 - 115	03/17/16 07:00	03/25/16 11:09	1
Phenol-d5	27	X	31 - 110	03/17/16 07:00	03/25/16 11:09	1
Terphenyl-d14	139	X	36 - 134	03/17/16 07:00	03/25/16 11:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
<b>Barium</b>	<b>0.050</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:50	1
<b>Manganese</b>	<b>0.090</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:50	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:50	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:50	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:26	1
Barium	<0.50		0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:07	1
<b>Chromium</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:07	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:26	1
<b>Iron</b>	<b>26</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:26	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:07	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:26	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-4(0-1)-031416**

**Lab Sample ID: 500-108762-11**

**Date Collected: 03/14/16 15:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.7**

**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		03/23/16 14:51	03/25/16 03:26	1
<b>Zinc</b>	<b>0.63</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Arsenic</b>	<b>2.2</b>		0.52	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Barium</b>	<b>6.0</b>		0.52	0.095	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Beryllium</b>	<b>0.13</b>	<b>J</b>	0.21	0.045	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Calcium</b>	<b>1500</b>		10	3.3	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Chromium</b>	<b>4.8</b>		0.52	0.089	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Cobalt</b>	<b>1.6</b>		0.26	0.059	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Copper</b>	<b>1.3</b>		0.52	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Iron</b>	<b>5600</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Lead</b>	<b>3.1</b>		0.26	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Magnesium</b>	<b>1000</b>		5.2	2.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Manganese</b>	<b>45</b>	<b>B</b>	0.52	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 13:15	1
<b>Nickel</b>	<b>3.0</b>		0.52	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Potassium</b>	<b>140</b>		26	4.2	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Sodium</b>	<b>210</b>		52	6.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Vanadium</b>	<b>13</b>		0.26	0.076	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1
<b>Zinc</b>	<b>8.5</b>		1.0	0.33	mg/Kg	☼	03/18/16 09:23	03/24/16 02:28	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:47	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		03/23/16 17:00	03/24/16 11:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>51</b>		18	9.5	ug/Kg	☼	03/21/16 15:30	03/23/16 00:29	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			03/17/16 15:43	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-5(0-1)-031416**

**Lab Sample ID: 500-108762-12**

**Date Collected: 03/14/16 15:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>38</b>		23	4.4	ug/Kg	☼		03/16/16 15:40	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 15:40	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 15:40	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 15:40	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 15:40	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 15:40	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 15:40	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 15:40	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 15:40	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 15:40	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 15:40	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 15:40	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 15:40	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 15:40	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 15:40	1
<b>Methyl Ethyl Ketone</b>	<b>6.2</b>		5.7	2.0	ug/Kg	☼		03/16/16 15:40	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 15:40	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 15:40	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 15:40	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 15:40	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 15:40	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 15:40	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 15:40	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 15:40	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 15:40	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 15:40	1
Dibromofluoromethane	103		75 - 120		03/16/16 15:40	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 15:40	1
Toluene-d8 (Surr)	113		75 - 122		03/16/16 15:40	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	☼	03/17/16 07:00	03/28/16 13:04	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-5(0-1)-031416**

**Lab Sample ID: 500-108762-12**

**Date Collected: 03/14/16 15:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

**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	84	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>2-Methylnaphthalene</b>	<b>81</b>		36	6.7	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Acenaphthylene</b>	<b>31 J</b>		36	4.8	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Anthracene</b>	<b>31 J</b>		36	6.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Benzo[a]anthracene</b>	<b>84 *</b>		36	4.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Benzo[a]pyrene</b>	<b>130 *</b>		36	7.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Benzo[b]fluoranthene</b>	<b>180 *</b>		36	7.9	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Benzo[g,h,i]perylene</b>	<b>120 *</b>		36	12	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Benzo[k]fluoranthene</b>	<b>56 *</b>		36	11	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Carbazole	<180		180	91	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Chrysene</b>	<b>160 *</b>		36	10	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Dibenzofuran</b>	<b>45 J</b>		180	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Fluoranthene</b>	<b>150</b>		36	6.8	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Fluorene</b>	<b>33 J</b>		36	5.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-5(0-1)-031416**

**Lab Sample ID: 500-108762-12**

**Date Collected: 03/14/16 15:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

## 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>59</b>	*	36	9.5	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Naphthalene</b>	<b>36</b>		36	5.6	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Phenanthrene</b>	<b>350</b>		36	5.1	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
<b>Pyrene</b>	<b>390</b>	*	36	7.3	ug/Kg	☼	03/17/16 07:00	03/28/16 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		35 - 137				03/17/16 07:00	03/28/16 13:04	1
2-Fluorobiphenyl	98		25 - 119				03/17/16 07:00	03/28/16 13:04	1
2-Fluorophenol	87		25 - 110				03/17/16 07:00	03/28/16 13:04	1
Nitrobenzene-d5	82		25 - 115				03/17/16 07:00	03/28/16 13:04	1
Phenol-d5	73		31 - 110				03/17/16 07:00	03/28/16 13:04	1
Terphenyl-d14	230	X *	36 - 134				03/17/16 07:00	03/28/16 13:04	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
<b>Barium</b>	<b>0.21</b>	J	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:55	1
<b>Lead</b>	<b>0.031</b>		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:55	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:55	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:55	1
<b>Zinc</b>	<b>0.13</b>	J	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:55	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:30	1
<b>Barium</b>	<b>0.15</b>	J	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 21:12	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:30	1
<b>Iron</b>	<b>2.4</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:30	1
<b>Lead</b>	<b>0.031</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 21:12	1
<b>Manganese</b>	<b>0.068</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R39-5(0-1)-031416**

**Lab Sample ID: 500-108762-12**

**Date Collected: 03/14/16 15:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 87.5**

**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		03/23/16 14:51	03/25/16 03:30	1
<b>Zinc</b>	<b>0.21</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Arsenic</b>	<b>1.7</b>		0.48	0.22	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Barium</b>	<b>20</b>		0.48	0.088	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Beryllium</b>	<b>0.31</b>		0.19	0.042	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Cadmium</b>	<b>0.15</b>		0.096	0.028	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Calcium</b>	<b>22000</b>		9.6	3.1	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Chromium</b>	<b>5.5</b>		0.48	0.083	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Cobalt</b>	<b>2.1</b>		0.24	0.054	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Copper</b>	<b>4.8</b>		0.48	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Iron</b>	<b>8000</b>	<b>B</b>	9.6	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Lead</b>	<b>41</b>		0.24	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Magnesium</b>	<b>13000</b>		4.8	2.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Manganese</b>	<b>100</b>	<b>B</b>	0.48	0.095	mg/Kg	☼	03/18/16 09:23	03/24/16 13:19	1
<b>Nickel</b>	<b>5.8</b>		0.48	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Potassium</b>	<b>320</b>		24	3.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Selenium</b>	<b>0.25</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Sodium</b>	<b>540</b>		48	6.4	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Vanadium</b>	<b>8.0</b>		0.24	0.070	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1
<b>Zinc</b>	<b>27</b>		0.96	0.31	mg/Kg	☼	03/18/16 09:23	03/24/16 02:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:49	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		03/23/16 17:00	03/24/16 12:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	18	9.4	ug/Kg	☼	03/21/16 15:30	03/23/16 00:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.45</b>		0.200	0.200	SU			03/17/16 15:48	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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 6041  
Phone: 708.534.5200 Fax: 708.534.5



500-108762 COC

Report To (optional)  
Contact: S. Babusalkumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sam  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762

Chain of Custody Number: \_\_\_\_\_

Page 3 of 4

Temperature °C of Cooler: 2.3 2.8 3.0 3.5 3/15/16

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP		SAP Metals		PH		Preservative Key	
<u>Weston</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix										Comments	
<u>IDOT-040</u>																	
Project Location/State		Lab Project #															
<u>Branch of West Park / IL</u>																	
Sampler		Lab PM															
<u>T. Walls</u>		<u>D. Wright</u>															
Lab ID	MS/MSD	Sample ID		Sampling													
				Date	Time												
<u>1</u>		<u>R45-3(0-1)-031416</u>		<u>3-14-16</u>	<u>1400</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<u>2</u>		<u>R45-4(0-1)-031416</u>			<u>1405</u>												
<u>3</u>		<u>R45-5(0-1)-031416</u>			<u>1420</u>												
<u>4</u>		<u>R43-4(0-1)-031416</u>			<u>1425</u>												
<u>5</u>		<u>R43-5(0-1)-031416</u>			<u>1435</u>												
<u>6</u>		<u>R43-6(0-1)-031416</u>			<u>1445</u>												
<u>7</u>		<u>R43-7(0-1)-031416</u>			<u>1455</u>												
<u>8</u>		<u>R39-2(0-1)-031416</u>			<u>1510</u>												
<u>9</u>		<u>R39-3(0-1)-031416</u>			<u>1525</u>												
<u>10</u>		<u>R39-3(0-1)-031416D</u>		<u>3-14-16</u>	<u>1525</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley</u>	Company <u>TA-CRT</u>	Date <u>3/15/16</u>	Time <u>0725</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:

# 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. Babuszkiewicz  
Company: Worston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Same  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Worston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH	Comments					
<u>IDOT-040</u>				Date	Time									Comments					
Project Location/State		Lab PM																	
<u>Bradwood &amp; Galev R/W / IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP	Inorganics	PH	Comments					
<u>11</u>		<u>R39-4(0-1)-031416</u>		<u>3-14-16</u>	<u>1535</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>12</u>		<u>R39-5(0-1)-031416</u>			<u>1545</u>														
<u>13</u>		<u>W037-1(0-1)-031416</u>			<u>1555</u>														
<u>14</u>		<u>AL32-3(0-1)-031416</u>			<u>1605</u>														
<u>15</u>		<u>AL32-4(0-1)-031416</u>			<u>1615</u>														
<u>16</u>		<u>AL32-5(0-1)-031416</u>			<u>1620</u>														
<u>17</u>		<u>F30-1(0-1)-031416</u>		<u>3-14-16</u>	<u>1630</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<del><u>T. Walls 3-14-16</u></del>																			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Worston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CERT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22305 W. IL 113, (ISGS Site No. 2948-40)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261469021 Longitude: -88.148613123  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113Latitude: 41.261469021 Longitude: -88.148613123Uncontaminated 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 F40-1 AND F40-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-40. SEE FIGURE 3-6 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: 500-108434-1.  
ALSO SEE FIGURE 4-6 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-40**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

<b>Field Sample ID</b>	F40-1(0-1)-030716	F40-2(0-1)-030716	<b>Soil Reference Concentrations</b>
<b>Sample Date</b>	3/7/2016	3/7/2016	
<b>Location ID</b>	F40-1	F40-2	
<b>Depth</b>	0 - 1	0 - 1	
<b>Location Code</b>	2948-40	2948-40	
<b>Parameter</b>			
Laboratory pH	8.59	8.06	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	32 J	7.1 J	900 / 1100 / 1800
Benzo(b)fluoranthene	52 *	ND	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	1.5	1.3	11.3 / 13
Barium, Total	16	13	1500
Beryllium, Total	0.27	0.19 J	22
Cadmium, Total	0.11 J	0.046 J	5.2
Calcium, Total	22000 J	24000 J	---
Chromium, Total	ND	ND	21
Iron, Total	5000 J+	4100 J+	15000 / 15900
Lead, Total	18 J	17 J	107
Manganese, Total	71 J	75 J	630 / 636
Mercury, Total	0.014 J	ND	0.89
Nickel, Total	4.9 B	3.9 B	100
Potassium, Total	290 J+	260 J+	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	27 B	14 B	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.17 J	0.22 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	0.0077	0.018	0.0075
Manganese, TCLP	0.97	0.97	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	0.7	0.37 J	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.12 J	0.11 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.013 J	0.011 J	0.1
Iron, SPLP	9.3	7.2	5
Lead, SPLP	0.028	0.022	0.0075
Manganese, SPLP	0.1	0.054	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	ND	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.61	0.42 J	5

**Summary Table of ISGS Site No. 2948-40**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108434-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/16/2016 9:42:25 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.*

- 1
- 2
- 3
- 4
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-1(0-1)-030716**

**Lab Sample ID: 500-108434-18**

**Date Collected: 03/07/16 13:35**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/08/16 19:00	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 19:00	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/08/16 19:00	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 19:00	1
Bromomethane	<5.8		5.8	2.2	ug/Kg	☼		03/08/16 19:00	1
Carbon disulfide	<5.8		5.8	2.2	ug/Kg	☼		03/08/16 19:00	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 19:00	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/08/16 19:00	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 19:00	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 19:00	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/08/16 19:00	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/08/16 19:00	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 19:00	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/08/16 19:00	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 19:00	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 19:00	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 19:00	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/08/16 19:00	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/08/16 19:00	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/08/16 19:00	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 19:00	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/08/16 19:00	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/08/16 19:00	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/08/16 19:00	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/08/16 19:00	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 19:00	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/08/16 19:00	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/08/16 19:00	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/08/16 19:00	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/08/16 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		03/08/16 19:00	1
Dibromofluoromethane	103		75 - 120		03/08/16 19:00	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/08/16 19:00	1
Toluene-d8 (Surr)	105		75 - 122		03/08/16 19:00	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	☼	03/08/16 16:15	03/10/16 20:14	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-1(0-1)-030716**

**Lab Sample ID: 500-108434-18**

**Date Collected: 03/07/16 13:35**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>2-Methylnaphthalene</b>	<b>150</b>		39	7.1	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2-Methylphenol	<200		200	62	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
3,3'-Dichlorobenzidine	<200 *		200	54	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Acenaphthene</b>	<b>11 J</b>		39	7.0	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Acenaphthylene</b>	<b>19 J</b>		39	5.1	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Anthracene</b>	<b>15 J</b>		39	6.5	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Benzo[a]anthracene</b>	<b>32 J *</b>		39	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Benzo[a]pyrene	<39 *		39	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Benzo[b]fluoranthene</b>	<b>52 *</b>		39	8.4	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Benzo[g,h,i]perylene	<39 *		39	13	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Benzo[k]fluoranthene</b>	<b>18 J *</b>		39	11	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Bis(2-ethylhexyl) phthalate	<200 *		200	71	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Butyl benzyl phthalate	<200 *		200	74	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Carbazole	<200		200	97	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Chrysene</b>	<b>50 *</b>		39	11	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Dibenz(a,h)anthracene	<39 *		39	7.5	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Dibenzofuran	<200		200	45	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Fluoranthene</b>	<b>28 J</b>		39	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Fluorene</b>	<b>22 J</b>		39	5.5	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-1(0-1)-030716**

**Lab Sample ID: 500-108434-18**

**Date Collected: 03/07/16 13:35**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Isophorone	<200		200	44	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Naphthalene</b>	<b>31</b>	<b>J</b>	39	6.0	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Phenanthrene</b>	<b>110</b>		39	5.4	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
Phenol	<200		200	86	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Pyrene</b>	<b>130</b>	*	39	7.7	ug/Kg	☼	03/08/16 16:15	03/10/16 20:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	68		35 - 137				03/08/16 16:15	03/10/16 20:14	1
2-Fluorobiphenyl	99		25 - 119				03/08/16 16:15	03/10/16 20:14	1
2-Fluorophenol	88		25 - 110				03/08/16 16:15	03/10/16 20:14	1
Nitrobenzene-d5	92		25 - 115				03/08/16 16:15	03/10/16 20:14	1
Phenol-d5	71		31 - 110				03/08/16 16:15	03/10/16 20:14	1
Terphenyl-d14	200	X *	36 - 134				03/08/16 16:15	03/10/16 20:14	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 16:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 16:42	1
<b>Lead</b>	<b>0.0077</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 16:42	1
<b>Manganese</b>	<b>0.97</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 16:42	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 16:42	1
<b>Zinc</b>	<b>0.70</b>		0.50	0.020	mg/L		03/10/16 14:50	03/11/16 16:42	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		03/11/16 08:51	03/11/16 23:58	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/11/16 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/11/16 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/11/16 23:58	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:58	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:58	1
<b>Iron</b>	<b>9.3</b>		0.40	0.20	mg/L		03/11/16 08:51	03/11/16 23:58	1
<b>Lead</b>	<b>0.028</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/11/16 23:58	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/11/16 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/11/16 23:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-1(0-1)-030716**

**Lab Sample ID: 500-108434-18**

Date Collected: 03/07/16 13:35

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.5

**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		03/11/16 08:51	03/11/16 23:58	1
<b>Zinc</b>	<b>0.61</b>		0.50	0.020	mg/L		03/11/16 08:51	03/11/16 23:58	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	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Arsenic</b>	<b>1.5</b>		0.58	0.27	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Barium</b>	<b>16</b>		0.58	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Beryllium</b>	<b>0.27</b>		0.23	0.051	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Cadmium</b>	<b>0.11</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Calcium</b>	<b>22000</b>	<b>B</b>	12	3.8	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Chromium</b>	<b>5.5</b>	<b>B</b>	2.9	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Cobalt</b>	<b>1.8</b>		0.29	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Copper</b>	<b>3.7</b>		0.58	0.13	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Iron</b>	<b>5000</b>		12	4.5	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Lead</b>	<b>18</b>		0.29	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Magnesium</b>	<b>13000</b>		5.8	2.4	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Manganese</b>	<b>71</b>		0.58	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Nickel</b>	<b>4.9</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Potassium</b>	<b>290</b>		29	4.8	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Sodium</b>	<b>470</b>		58	7.7	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Vanadium</b>	<b>10</b>		0.29	0.085	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1
<b>Zinc</b>	<b>27</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	03/09/16 15:56	03/10/16 22:55	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 16:29	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		03/10/16 20:00	03/12/16 17:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>14</b>	<b>J</b>	17	8.9	ug/Kg	☼	03/09/16 14:00	03/11/16 14:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.59</b>		0.200	0.200	SU			03/09/16 15:35	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-2(0-1)-030716**

**Lab Sample ID: 500-108434-19**

**Date Collected: 03/07/16 13:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 10:57	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 10:57	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/09/16 10:57	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 10:57	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 10:57	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 10:57	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 10:57	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 10:57	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 10:57	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 10:57	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 10:57	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/09/16 10:57	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 10:57	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 10:57	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 10:57	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 10:57	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 10:57	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 10:57	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 10:57	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/09/16 10:57	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 10:57	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 10:57	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/09/16 10:57	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 10:57	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/09/16 10:57	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 10:57	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 10:57	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 10:57	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 10:57	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 10:57	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/09/16 10:57	1
Dibromofluoromethane	96		75 - 120		03/09/16 10:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/09/16 10:57	1
Toluene-d8 (Surr)	114		75 - 122		03/09/16 10:57	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	☼	03/08/16 16:15	03/10/16 17:01	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-2(0-1)-030716**

**Lab Sample ID: 500-108434-19**

**Date Collected: 03/07/16 13:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
<b>Acenaphthylene</b>	<b>5.9 J</b>		37	4.9	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
<b>Benzo[a]anthracene</b>	<b>7.1 J *</b>		37	5.0	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Benzo[a]pyrene	<37 *		37	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Benzo[b]fluoranthene	<37 *		37	8.0	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Bis(2-ethylhexyl) phthalate	<190 *		190	68	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Butyl benzyl phthalate	<190 *		190	71	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Carbazole	<190		190	93	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
<b>Fluoranthene</b>	<b>11 J</b>		37	6.9	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-2(0-1)-030716**

**Lab Sample ID: 500-108434-19**

**Date Collected: 03/07/16 13:50**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.7	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
<b>Phenanthrene</b>	<b>19</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Phenol	<190		190	83	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
<b>Pyrene</b>	<b>24</b>	<b>J *</b>	37	7.4	ug/Kg	☼	03/08/16 16:15	03/10/16 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137				03/08/16 16:15	03/10/16 17:01	1
2-Fluorobiphenyl	80		25 - 119				03/08/16 16:15	03/10/16 17:01	1
2-Fluorophenol	73		25 - 110				03/08/16 16:15	03/10/16 17:01	1
Nitrobenzene-d5	84		25 - 115				03/08/16 16:15	03/10/16 17:01	1
Phenol-d5	46		31 - 110				03/08/16 16:15	03/10/16 17:01	1
Terphenyl-d14	207	X *	36 - 134				03/08/16 16:15	03/10/16 17:01	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:50	03/11/16 17:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:50	03/11/16 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:50	03/11/16 17:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:50	03/11/16 17:05	1
<b>Lead</b>	<b>0.018</b>		0.0075	0.0075	mg/L		03/10/16 14:50	03/11/16 17:05	1
<b>Manganese</b>	<b>0.97</b>		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:50	03/11/16 17:05	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:50	03/11/16 17:05	1
<b>Zinc</b>	<b>0.37</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:50	03/11/16 17:05	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:51	03/12/16 00:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:51	03/12/16 00:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Iron</b>	<b>7.2</b>		0.40	0.20	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/11/16 08:51	03/12/16 00:20	1
<b>Manganese</b>	<b>0.054</b>		0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 08:51	03/12/16 00:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:51	03/12/16 00:20	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

**Client Sample ID: F40-2(0-1)-030716**

**Lab Sample ID: 500-108434-19**

Date Collected: 03/07/16 13:50

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.3

### 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		03/11/16 08:51	03/12/16 00:20	1
<b>Zinc</b>	<b>0.42</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:51	03/12/16 00:20	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	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Arsenic</b>	<b>1.3</b>		0.57	0.26	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Barium</b>	<b>13</b>		0.57	0.10	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Beryllium</b>	<b>0.19</b>	<b>J</b>	0.23	0.049	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Cadmium</b>	<b>0.046</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Calcium</b>	<b>24000</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Chromium</b>	<b>5.1</b>	<b>B</b>	2.8	0.097	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Cobalt</b>	<b>1.6</b>		0.28	0.064	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Copper</b>	<b>1.7</b>		0.57	0.12	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Iron</b>	<b>4100</b>		11	4.4	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Magnesium</b>	<b>15000</b>		5.7	2.3	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Manganese</b>	<b>75</b>		0.57	0.11	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Nickel</b>	<b>3.9</b>	<b>B</b>	0.57	0.15	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Potassium</b>	<b>260</b>		28	4.6	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Sodium</b>	<b>120</b>		57	7.5	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Vanadium</b>	<b>6.6</b>		0.28	0.083	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	1
<b>Zinc</b>	<b>14</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 15:56	03/10/16 23:07	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		03/10/16 20:00	03/12/16 16:31	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		03/10/16 20:00	03/12/16 17:28	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	10	ug/Kg	☼	03/09/16 14:00	03/11/16 14:43	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.06</b>		0.200	0.200	SU			03/09/16 15:39	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108434-1

## 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
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108434.COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc.  
Address: 300 Plazza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7230  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 3, 3, 2, 9

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston Solutions		02056-014-040-0030		7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
100T040-IL Route 113											
Project Location/State		Lab PM									
Braidwood, IL		D Wright									
Sampler											
M. Bohony-Skubic											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SPLT METALS	PH
1		BR7-7(0-1)-030716	3-7-16	0840	2 S		X	X	X	X	X
2		BR7-8(0-1)-030716		0853							
3		BR7-9(0-1)-030716		0915							
4		BR7-10(0-1)-030716		0927							
5		BR7-11(0-1)-030716		0938							
6		BR7-12(0-1)-030716		0947							
7		FS-1(0-1)-030716		1010							
8		FS-2(0-1)-030716		1025							
9		WL4-1(0-1)-030716		1047							
10		R2-2(0-1)-030716	3-7-16	1100	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date

Per Manual 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 Weston	Date 3-7-2016	Time 1530	Received By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1530
Relinquished By <u>[Signature]</u>	Company TA	Date 3/7/16	Time 1635	Received By <u>[Signature]</u>	Company TA-CHE	Date 3/7/16	Time 1635
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped:   
Hand Delivered:

Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Babarwal Kumer  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108434

Chain of Custody Number: \_\_\_\_\_

Page 2 of 2

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOLs	SVOCs	TOTAL METALS	TCAP/SPUR METALS	PH		
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time							Comments	
11		R31-1(0-1)-030716	3-7-16	1150	2	S	X	X	X	X	X	
12		AL32-1(0-1)-030716		1203								
13		GL33-1(0-1)-030716		1220								
14		R34-1(0-1)-030716		1230								
15		F36-1(0-1)-030716		1250								
16		F36-1(0-1)-030716 D		1250								
17		AL32-2(0-1)-030716		1305								
18		F40-1(0-1)-030716		1335								
19		F40-2(0-1)-030716		1350								
20		R39-1(0-1)-030716	3-7-16	1403	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days

Requested Due Date: \_\_\_\_\_

RE CONTRACT

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>am taylor</u> Company: <u>Weston</u> Date: <u>3-7-2016</u> Time: <u>1530</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1530</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By <u>[Signature]</u> Company: <u>TA-CPE</u> Date: <u>3/7/16</u> Time: <u>1635</u>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater  
W - Water  
S - Soil  
SL - Sludge  
MS - Miscellaneous  
OL - Oil  
A - Air  
SE - Sediment  
SO - Soil  
L - Leachate  
WI - Wipe  
DW - Drinking Water  
O - Other

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22201 W. IL 113, (ISGS Site No. 2948-41)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261503563 Longitude: -88.145652457  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261503563 Longitude: -88.145652457

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 F41-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-41. SEE FIGURE 3-6 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: 500-108435-1.  
ALSO SEE FIGURE 4-6 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:



5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-41**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	F41-1(0-1)-030716	<b>Soil Reference Concentrations</b>
Sample Date	3/7/2016	
Location ID	F41-1	
Depth	0 - 1	
Location Code	2948-41	
Parameter		
Laboratory pH	8.54	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.6	11.3 / 13
Barium, Total	15	1500
Beryllium, Total	0.18 J	22
Cadmium, Total	ND	5.2
Calcium, Total	4300 B	---
Chromium, Total	6.6 B	21
Iron, Total	6000 B	15000 / 15900
Lead, Total	3.5	107
Manganese, Total	61	630 / 636
Mercury, Total	0.015 J	0.89
Nickel, Total	4.6	100
Potassium, Total	260	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	11	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.15 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.51	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.43 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.014 J	0.05
Barium, SPLP	0.16 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.051	0.1
Iron, SPLP	47 J+	5
Lead, SPLP	0.029	0.0075
Manganese, SPLP	0.34	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.04	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.24 J	5



**Summary Table of ISGS Site No. 2948-41**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108435-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 3:44:05 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: F41-1(0-1)-030716**

**Lab Sample ID: 500-108435-1**

**Date Collected: 03/07/16 14:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/08/16 23:30	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 23:30	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/08/16 23:30	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 23:30	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 23:30	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
Chlorobenzene	<5.7	F1	5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/08/16 23:30	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 23:30	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
cis-1,3-Dichloropropene	<5.7	F1	5.7	1.3	ug/Kg	☼		03/08/16 23:30	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/08/16 23:30	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/08/16 23:30	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/08/16 23:30	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/08/16 23:30	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/08/16 23:30	1
Ethylbenzene	<5.7	F1	5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/08/16 23:30	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/08/16 23:30	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/08/16 23:30	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
Styrene	<5.7	F1	5.7	1.3	ug/Kg	☼		03/08/16 23:30	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/08/16 23:30	1
Tetrachloroethene	<5.7	F1	5.7	1.2	ug/Kg	☼		03/08/16 23:30	1
Toluene	<5.7	F1	5.7	2.0	ug/Kg	☼		03/08/16 23:30	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
trans-1,3-Dichloropropene	<5.7	F1	5.7	1.6	ug/Kg	☼		03/08/16 23:30	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/08/16 23:30	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/08/16 23:30	1
Trichloroethene	<5.7	F1	5.7	1.5	ug/Kg	☼		03/08/16 23:30	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/08/16 23:30	1
Xylenes, Total	<11	F1	11	2.1	ug/Kg	☼		03/08/16 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/08/16 23:30	1
Dibromofluoromethane	107		75 - 120		03/08/16 23:30	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/08/16 23:30	1
Toluene-d8 (Surr)	107		75 - 122		03/08/16 23:30	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: F41-1(0-1)-030716**

**Lab Sample ID: 500-108435-1**

**Date Collected: 03/07/16 14:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,4-Dinitrophenol	<760	F1	760	660	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
3,3'-Dichlorobenzidine	<190	F2	190	52	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4,6-Dinitro-2-methylphenol	<760	F1	760	300	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Benzo[a]pyrene	<37	F1 F2	37	7.3	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Benzo[b]fluoranthene	<37	F1 F2	37	8.1	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Benzo[g,h,i]perylene	<37	F2	37	12	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Benzo[k]fluoranthene	<37	F1 F2	37	11	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Bis(2-ethylhexyl) phthalate	<190	F1	190	69	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Butyl benzyl phthalate	<190	F1	190	71	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Carbazole	<190		190	94	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Chrysene	<37		37	10	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Dibenz(a,h)anthracene	<37	F2	37	7.2	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Di-n-octyl phthalate	<190	F1	190	61	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Hexachlorocyclopentadiene	<760	F1	760	220	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Hexachloroethane	<190	F1	190	57	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: F41-1(0-1)-030716**

**Lab Sample ID: 500-108435-1**

**Date Collected: 03/07/16 14:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.2**

**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	F2	37	9.7	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Pentachlorophenol	<760	F1	760	600	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Pyrene	<37	F1	37	7.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		35 - 137				03/09/16 16:52	03/11/16 05:15	1
2-Fluorobiphenyl	75		25 - 119				03/09/16 16:52	03/11/16 05:15	1
2-Fluorophenol	86		25 - 110				03/09/16 16:52	03/11/16 05:15	1
Nitrobenzene-d5	75		25 - 115				03/09/16 16:52	03/11/16 05:15	1
Phenol-d5	81		31 - 110				03/09/16 16:52	03/11/16 05:15	1
Terphenyl-d14	92		36 - 134				03/09/16 16:52	03/11/16 05:15	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:18	1
<b>Manganese</b>	<b>0.51</b>		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:18	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:18	1
<b>Zinc</b>	<b>0.43</b>	<b>J B</b>	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:18	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:52	03/12/16 03:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:52	03/12/16 03:25	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Chromium</b>	<b>0.051</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Iron</b>	<b>47</b>		0.40	0.20	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Lead</b>	<b>0.029</b>		0.0075	0.0075	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
<b>Nickel</b>	<b>0.040</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:52	03/12/16 03:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: F41-1(0-1)-030716**

**Lab Sample ID: 500-108435-1**

**Date Collected: 03/07/16 14:10**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 87.2**

**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		03/11/16 08:52	03/12/16 03:25	1
<b>Zinc</b>	<b>0.24</b>	<b>J</b>	0.50	0.020	mg/L		03/11/16 08:52	03/12/16 03:25	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	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Arsenic</b>	<b>1.6</b>		0.55	0.25	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Barium</b>	<b>15</b>		0.55	0.10	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Beryllium</b>	<b>0.18</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Calcium</b>	<b>4300</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Chromium</b>	<b>6.6</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Cobalt</b>	<b>1.7</b>		0.28	0.062	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Copper</b>	<b>2.3</b>		0.55	0.12	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Iron</b>	<b>6000</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Lead</b>	<b>3.5</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Magnesium</b>	<b>2600</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Manganese</b>	<b>61</b>		0.55	0.11	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Nickel</b>	<b>4.6</b>		0.55	0.15	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Potassium</b>	<b>260</b>		28	4.5	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Sodium</b>	<b>640</b>	<b>B</b>	55	7.3	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Vanadium</b>	<b>12</b>		0.28	0.080	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1
<b>Zinc</b>	<b>11</b>		1.1	0.35	mg/Kg	☼	03/09/16 15:58	03/10/16 13:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 11:21	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		03/10/16 20:00	03/12/16 14:06	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>15</b>	<b>J</b>	17	9.0	ug/Kg	☼	03/10/16 19:30	03/13/16 14:23	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			03/09/16 15:47	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## 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
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: 708.53



500-108435 COC

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions Inc. Company: \_\_\_\_\_  
 Address: 300 Plaza Circle, Ste 207 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: 224-864-7236 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108435

Chain of Custody Number: \_\_\_\_\_

Page 1 of 1

Temperature °C of Cooler: 3.3, 2.9

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions		02056.014.040.0030		7	7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter		Matrix		Matrix		Comments		
IDOT 040 - IL Route 113												
Project Location/State		Lab Project #		Parameter		Matrix		Matrix		Comments		
Braidwood, IL												
Sampler		Lab PM		Parameter		Matrix		Matrix		Comments		
M. Doherty-Skelton		D. Wright										
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOX/SPR Metals	PH	TOTAL Metals	Comments
			Date	Time								
1		F41-1(0-1)-030716	3-7-16	1410	2 S	S	X	X	X	X	X	
2		AL42-1(0-1)-030716		1423		S						
3		R43-1(0-1)-030716		1433		S						
4		R43-2(0-1)-030716		1442		S						
5		R43-3(0-1)-030716		1452		S						
6		AL44-1(0-1)-030716		1515		S						
7		AL44-1(0-1)-030716D	3-7-16	1515	2 S	S	X	X	X	X	X	
***LAST ITEM***												MDC
												MDC
												MDC

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Per contract 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>3-7-2016</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/2016</u> Time: <u>1530</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

22200 block of W. Il 113, (ISGS Site No. 2948-42)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.261065937 Longitude: -88.144089597  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms

Project Name: FAU 327: Illinois Route 113

Latitude: 41.261065937 Longitude: -88.144089597

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 AL42-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-42. SEE FIGURE 3-6 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: 500-108435-1.  
ALSO SEE FIGURE 4-6 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:

5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-42**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AL42-1(0-1)-030716	Soil Reference Concentrations
Sample Date	3/7/2016	
Location ID	AL42-1	
Depth	0 - 1	
Location Code	2948-42	
Parameter		
Laboratory pH	8.92	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	10	11.3 / 13
Barium, Total	18	1500
Beryllium, Total	0.52	22
Cadmium, Total	ND	5.2
Calcium, Total	62000 B	---
Chromium, Total	12 B	21
Iron, Total	18000 B	15000 / 15900
Lead, Total	20	107
Manganese, Total	320	630 / 636
Mercury, Total	0.036	0.89
Nickel, Total	30	100
Potassium, Total	1600	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	55	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.16 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.28	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.11	0.05
Barium, SPLP	0.17 J	2
Beryllium, SPLP	0.0056	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.099	0.1
Iron, SPLP	170 J+	5
Lead, SPLP	0.097	0.0075
Manganese, SPLP	0.82	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.14	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.84	5

**Summary Table of ISGS Site No. 2948-42**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108435-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 3:44:05 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
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- 8
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- 10
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- 14
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: AL42-1(0-1)-030716**

**Lab Sample ID: 500-108435-2**

**Date Collected: 03/07/16 14:23**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.7	ug/Kg	☼		03/09/16 00:48	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/09/16 00:48	1
Bromoform	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
Bromomethane	<6.1		6.1	2.3	ug/Kg	☼		03/09/16 00:48	1
Carbon disulfide	<6.1		6.1	2.3	ug/Kg	☼		03/09/16 00:48	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/09/16 00:48	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/09/16 00:48	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/09/16 00:48	1
cis-1,2-Dichloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
Dibromochloromethane	<6.1		6.1	0.71	ug/Kg	☼		03/09/16 00:48	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/09/16 00:48	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/09/16 00:48	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/09/16 00:48	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/09/16 00:48	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/09/16 00:48	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/09/16 00:48	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/09/16 00:48	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/09/16 00:48	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/09/16 00:48	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/09/16 00:48	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/09/16 00:48	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/09/16 00:48	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/09/16 00:48	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/09/16 00:48	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/09/16 00:48	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/09/16 00:48	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/09/16 00:48	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/09/16 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/09/16 00:48	1
Dibromofluoromethane	108		75 - 120		03/09/16 00:48	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/09/16 00:48	1
Toluene-d8 (Surr)	107		75 - 122		03/09/16 00:48	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	☼	03/09/16 16:52	03/11/16 05:45	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: AL42-1(0-1)-030716**

**Lab Sample ID: 500-108435-2**

**Date Collected: 03/07/16 14:23**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**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	☼	03/09/16 16:52	03/11/16 05:45	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Carbazole	<190		190	96	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Chrysene	<38		38	10	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: AL42-1(0-1)-030716**

**Lab Sample ID: 500-108435-2**

**Date Collected: 03/07/16 14:23**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 81.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Isophorone	<190		190	43	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Phenol	<190		190	85	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1
Pyrene	<38		38	7.6	ug/Kg	☼	03/09/16 16:52	03/11/16 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137	03/09/16 16:52	03/11/16 05:45	1
2-Fluorobiphenyl	75		25 - 119	03/09/16 16:52	03/11/16 05:45	1
2-Fluorophenol	82		25 - 110	03/09/16 16:52	03/11/16 05:45	1
Nitrobenzene-d5	75		25 - 115	03/09/16 16:52	03/11/16 05:45	1
Phenol-d5	80		31 - 110	03/09/16 16:52	03/11/16 05:45	1
Terphenyl-d14	92		36 - 134	03/09/16 16:52	03/11/16 05:45	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:23	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:23	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:23	1
<b>Zinc</b>	<b>0.039</b>	<b>J B</b>	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:23	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Beryllium</b>	<b>0.0056</b>		0.0040	0.0040	mg/L		03/11/16 08:52	03/12/16 03:32	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Chromium</b>	<b>0.099</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Copper</b>	<b>0.22</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Iron</b>	<b>170</b>		0.40	0.20	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Lead</b>	<b>0.097</b>		0.0075	0.0075	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:52	03/12/16 03:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: AL42-1(0-1)-030716**

**Lab Sample ID: 500-108435-2**

Date Collected: 03/07/16 14:23

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 81.5

**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		03/11/16 08:52	03/12/16 03:32	1
<b>Zinc</b>	<b>0.84</b>		0.50	0.020	mg/L		03/11/16 08:52	03/12/16 03:32	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	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Arsenic</b>	<b>10</b>		0.60	0.28	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Barium</b>	<b>18</b>		0.60	0.11	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Beryllium</b>	<b>0.52</b>		0.24	0.052	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Calcium</b>	<b>62000</b>	<b>B</b>	120	38	mg/Kg	☼	03/09/16 15:58	03/10/16 15:13	10
<b>Chromium</b>	<b>12</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Cobalt</b>	<b>15</b>		0.30	0.067	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Copper</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	12	4.6	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Lead</b>	<b>20</b>		0.30	0.15	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	6.0	2.4	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Manganese</b>	<b>320</b>		0.60	0.12	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Nickel</b>	<b>30</b>		0.60	0.16	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Potassium</b>	<b>1600</b>		30	4.9	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Selenium</b>	<b>0.43</b>	<b>J B</b>	0.60	0.29	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Sodium</b>	<b>920</b>	<b>B</b>	60	7.9	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Thallium</b>	<b>0.61</b>		0.60	0.29	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Vanadium</b>	<b>14</b>		0.30	0.087	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1
<b>Zinc</b>	<b>55</b>		1.2	0.38	mg/Kg	☼	03/09/16 15:58	03/10/16 13:36	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 11:23	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		03/10/16 20:00	03/12/16 14:08	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>36</b>		19	9.8	ug/Kg	☼	03/10/16 19:30	03/13/16 14:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.92</b>		0.200	0.200	SU			03/09/16 15:51	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## 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
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: 708.53



500-108435 COC

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions Inc. Company: \_\_\_\_\_  
 Address: 300 Plaza Circle, Ste 207 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: 224-864-7236 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108435

Chain of Custody Number: \_\_\_\_\_

Page 1 of 1

Temperature °C of Cooler: 3.3, 2.9

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions		02056.014.040.0030		7	7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter		Matrix		Matrix		Comments		
IDOT 040 - IL Route 113												
Project Location/State		Lab Project #		Parameter		Matrix		Matrix		Comments		
Braidwood, IL												
Sampler		Lab PM		Parameter		Matrix		Matrix		Comments		
M. Doherty-Skelton		D. Wright										
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOUR/SPUR Metals	PH	TOTAL Metals	Comments
			Date	Time								
1		F41-1(0-1)-030716	3-7-16	1410	2 S	S	X	X	X	X	X	
2		AL42-1(0-1)-030716		1423		S						
3		R43-1(0-1)-030716		1433		S						
4		R43-2(0-1)-030716		1442		S						
5		R43-3(0-1)-030716		1452		S						
6		AL44-1(0-1)-030716		1515		S						
7		AL44-1(0-1)-030716D	3-7-16	1515	2 S	S	X	X	X	X	X	
***LAST ITEM***												MDC
												MDC
												MDC

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Per contract 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>3-7-2016</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/2016</u> Time: <u>1530</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

22108-22218 W. IL 113 (ISGS Site No. 2948-43)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.259506426 Longitude: -88.142079927

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.259506426 Longitude: -88.142079927

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 R43-1 THROUGH R43-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-43. SEE FIGURES 3-6/3-7 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: 500-108435-1 AND 500-108762-1.  
ALSO SEE FIGURES 4-6/4-7 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*

*5 May 2016*

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-43**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R43-1(0-1)-030716	R43-2(0-1)-030716	R43-3(0-1)-030716	R43-4(0-1)-031416	R43-5(0-1)-031416	R43-6(0-1)-031416	R43-7(0-1)-031416	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	3/7/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R43-1	R43-2	R43-3	R43-4	R43-5	R43-6	R43-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-43	2948-43	2948-43	2948-43	2948-43	2948-43	2948-43	
<b>Parameter</b>								
Laboratory pH	8.82	8.4	6.96	8.27	8.6	8.46	8.13	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected							
<b>SVOCs (ug/kg)</b>								
Benzo(a)anthracene	87	ND	ND	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	130 J	ND	9.3 J	ND	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	210 J	ND	15 J	37 J	ND	ND	ND	900 / 1500 / 2100
Dibenzo(a,h)anthracene	25 J	ND	ND	ND	ND	ND	ND	90
Indeno(1,2,3-cd)pyrene	72 J	ND	ND	ND	ND	ND	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>								
Arsenic, Total	4.7	11	3.2	3.5 J-	6.9 J-	10 J-	2.6 J-	11.3 / 13
Barium, Total	21	17	42	26 J-	28 J-	24 J-	25 J-	1500
Beryllium, Total	0.43	0.65	0.26	0.29 J-	0.51 J-	0.53 J-	0.18 J-	22
Cadmium, Total	0.19	0.11	0.058 J	0.19 J-	0.098 J	0.097 J-	0.11 J-	5.2
Calcium, Total	100000 B	27000 B	2300 B	17000 J-	28000 J-	60000 J-	9200 J-	---
Chromium, Total	7.2 B	15 B	8.1 B	6.4	12	13	4.4	21
Iron, Total	12000 B	21000 B	8900 B	9000 J+	16000 J+	17000 J+	6400 J+	15000 / 15900
Lead, Total	13	23	9.5	21	14	18	7.4	107
Manganese, Total	380	340	290	200 J-	310 J-	350 J-	240 J-	630 / 636
Mercury, Total	0.016	0.037	0.028	0.014 J	0.028 J	0.025 J	0.0099 J	0.89
Nickel, Total	13	33	6.2	8	23	28	5.4	100
Potassium, Total	1000	2500	470	490 J+	1700 J+	1800 J+	410 J+	---
Selenium, Total	ND	ND	ND	ND	0.35 J	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	62	120	25	45 J+	61 J+	81 J+	23 J+	5100
<b>TCLP Metals (mg/l)</b>								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.22 J	0.14 J	0.28 J	0.24 J	0.19 J	0.19 J	0.2 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0027 J	0.0027 J	ND	0.0021 J	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	0.6	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.71	0.64	0.26	1.2 J+	0.61 J+	0.54 J+	0.41 J+	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	1.3 B	1.1 B	3 B	0.057 J	ND	ND	0.032 J	5



**Summary Table of ISGS Site No. 2948-43**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R43-1(0-1)-030716	R43-2(0-1)-030716	R43-3(0-1)-030716	R43-4(0-1)-031416	R43-5(0-1)-031416	R43-6(0-1)-031416	R43-7(0-1)-031416	Soil Reference Concentrations
Sample Date	3/7/2016	3/7/2016	3/7/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R43-1	R43-2	R43-3	R43-4	R43-5	R43-6	R43-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-43	2948-43	2948-43	2948-43	2948-43	2948-43	2948-43	
Parameter								
SPLP Metals (mg/l)								
Arsenic, SPLP	0.037 J	0.055	0.01 J	0.039 J	0.08	0.076	ND	0.05
Barium, SPLP	0.3 J	0.23 J	0.27 J	0.33 J	0.49 J	0.35 J	0.2 J	2
Beryllium, SPLP	0.0043	0.0066	ND	0.0042	0.0086	0.0078	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.002 J	ND	ND	ND	0.005
Chromium, SPLP	0.08	0.12	0.041	0.11	0.19	0.15	0.034	0.1
Iron, SPLP	83 J+	120 J+	38 J+	100	210	190	39	5
Lead, SPLP	0.073	0.07	0.02	0.17	0.13	0.13	0.047	0.0075
Manganese, SPLP	0.63	0.72	0.35	0.93	1.3	1	0.76	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.076	0.12	0.027	0.057	0.23	0.19	0.03	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.62	0.78	0.58	0.39 J	0.75 B	0.78 B	0.2 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108435-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/15/2016 3:44:05 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-1(0-1)-030716**

**Lab Sample ID: 500-108435-3**

**Date Collected: 03/07/16 14:33**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 90.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 01:14	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 01:14	1
Bromodichloromethane	<5.5		5.5	0.94	ug/Kg	☼		03/09/16 01:14	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 01:14	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 01:14	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 01:14	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/09/16 01:14	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/09/16 01:14	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/09/16 01:14	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 01:14	1
1,2-Dichloropropane	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 01:14	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 01:14	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 01:14	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/09/16 01:14	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/09/16 01:14	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 01:14	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/09/16 01:14	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 01:14	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/09/16 01:14	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 01:14	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 01:14	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 01:14	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 01:14	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 01:14	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/09/16 01:14	1
Dibromofluoromethane	107		75 - 120		03/09/16 01:14	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/09/16 01:14	1
Toluene-d8 (Surr)	107		75 - 122		03/09/16 01:14	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	40	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-1(0-1)-030716**

**Lab Sample ID: 500-108435-3**

**Date Collected: 03/07/16 14:33**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 90.1**

**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	84	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>2-Methylnaphthalene</b>	<b>33</b>	<b>J</b>	36	6.8	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Acenaphthylene</b>	<b>77</b>		36	4.8	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Anthracene</b>	<b>17</b>	<b>J</b>	36	6.1	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Benzo[a]anthracene</b>	<b>87</b>		36	4.9	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Benzo[a]pyrene</b>	<b>130</b>	*	36	7.1	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>	*	36	7.9	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Benzo[g,h,i]perylene</b>	<b>92</b>	*	36	12	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Benzo[k]fluoranthene</b>	<b>66</b>	*	36	11	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Carbazole	<180		180	92	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Chrysene</b>	<b>150</b>		36	10	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Dibenz(a,h)anthracene</b>	<b>25</b>	<b>J *</b>	36	7.1	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Fluoranthene</b>	<b>61</b>		36	6.8	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-1(0-1)-030716**

**Lab Sample ID: 500-108435-3**

**Date Collected: 03/07/16 14:33**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 90.1**

## 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>72</b>	*	36	9.5	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Isophorone	<180		180	41	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Naphthalene</b>	<b>9.0</b>	J	36	5.6	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Phenanthrene</b>	<b>110</b>		36	5.1	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Phenol	<180		180	82	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
<b>Pyrene</b>	<b>120</b>		36	7.3	ug/Kg	☼	03/09/16 16:52	03/11/16 09:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		35 - 137				03/09/16 16:52	03/11/16 09:11	1
2-Fluorobiphenyl	81		25 - 119				03/09/16 16:52	03/11/16 09:11	1
2-Fluorophenol	88		25 - 110				03/09/16 16:52	03/11/16 09:11	1
Nitrobenzene-d5	77		25 - 115				03/09/16 16:52	03/11/16 09:11	1
Phenol-d5	88		31 - 110				03/09/16 16:52	03/11/16 09:11	1
Terphenyl-d14	153	X	36 - 134				03/09/16 16:52	03/11/16 09:11	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
<b>Barium</b>	<b>0.22</b>	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:28	1
<b>Cadmium</b>	<b>0.0027</b>	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:28	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:28	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:28	1
<b>Zinc</b>	<b>1.3</b>	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:28	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>	J	0.050	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Barium</b>	<b>0.30</b>	J	0.50	0.050	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Beryllium</b>	<b>0.0043</b>		0.0040	0.0040	mg/L		03/11/16 08:52	03/12/16 03:39	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Chromium</b>	<b>0.080</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Cobalt</b>	<b>0.024</b>	J	0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Copper</b>	<b>0.085</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Iron</b>	<b>83</b>		0.40	0.20	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Lead</b>	<b>0.073</b>		0.0075	0.0075	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
<b>Nickel</b>	<b>0.076</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:52	03/12/16 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-1(0-1)-030716**

**Lab Sample ID: 500-108435-3**

Date Collected: 03/07/16 14:33

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 90.1

**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		03/11/16 08:52	03/12/16 03:39	1
<b>Zinc</b>	<b>0.62</b>		0.50	0.020	mg/L		03/11/16 08:52	03/12/16 03:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Arsenic</b>	<b>4.7</b>		0.51	0.24	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Barium</b>	<b>21</b>		0.51	0.093	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Beryllium</b>	<b>0.43</b>		0.20	0.044	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Cadmium</b>	<b>0.19</b>		0.10	0.030	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Calcium</b>	<b>100000</b>	<b>B</b>	100	33	mg/Kg	☼	03/09/16 15:58	03/10/16 15:17	10
<b>Chromium</b>	<b>7.2</b>	<b>B</b>	0.51	0.088	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Cobalt</b>	<b>5.9</b>		0.26	0.058	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Copper</b>	<b>9.2</b>		0.51	0.11	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Iron</b>	<b>12000</b>	<b>B</b>	10	3.9	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Lead</b>	<b>13</b>		0.26	0.13	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Magnesium</b>	<b>45000</b>	<b>B</b>	5.1	2.1	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Manganese</b>	<b>380</b>		0.51	0.10	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Nickel</b>	<b>13</b>		0.51	0.14	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Potassium</b>	<b>1000</b>		26	4.2	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Sodium</b>	<b>640</b>	<b>B</b>	51	6.7	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Vanadium</b>	<b>11</b>		0.26	0.075	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1
<b>Zinc</b>	<b>62</b>		1.0	0.32	mg/Kg	☼	03/09/16 15:58	03/10/16 13:41	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 11:28	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		03/10/16 20:00	03/12/16 14:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>		16	8.5	ug/Kg	☼	03/10/16 19:30	03/13/16 14:53	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			03/09/16 15:55	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-2(0-1)-030716**

**Lab Sample ID: 500-108435-4**

**Date Collected: 03/07/16 14:42**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 84.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 01:40	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 01:40	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/09/16 01:40	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 01:40	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 01:40	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 01:40	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 01:40	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 01:40	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/09/16 01:40	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 01:40	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 01:40	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 01:40	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 01:40	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 01:40	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/09/16 01:40	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 01:40	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/09/16 01:40	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 01:40	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 01:40	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 01:40	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 01:40	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 01:40	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 01:40	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 01:40	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/09/16 01:40	1
Dibromofluoromethane	109		75 - 120		03/09/16 01:40	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/09/16 01:40	1
Toluene-d8 (Surr)	106		75 - 122		03/09/16 01:40	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	☼	03/09/16 16:52	03/11/16 06:14	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-2(0-1)-030716**

**Lab Sample ID: 500-108435-4**

**Date Collected: 03/07/16 14:42**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 84.3**

**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	☼	03/09/16 16:52	03/11/16 06:14	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Carbazole	<200		200	98	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Chrysene	<39		39	11	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-2(0-1)-030716**

**Lab Sample ID: 500-108435-4**

**Date Collected: 03/07/16 14:42**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 84.3**

**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	☼	03/09/16 16:52	03/11/16 06:14	1
Isophorone	<200		200	44	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Phenol	<200		200	87	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1
Pyrene	<39		39	7.8	ug/Kg	☼	03/09/16 16:52	03/11/16 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137	03/09/16 16:52	03/11/16 06:14	1
2-Fluorobiphenyl	64		25 - 119	03/09/16 16:52	03/11/16 06:14	1
2-Fluorophenol	71		25 - 110	03/09/16 16:52	03/11/16 06:14	1
Nitrobenzene-d5	64		25 - 115	03/09/16 16:52	03/11/16 06:14	1
Phenol-d5	65		31 - 110	03/09/16 16:52	03/11/16 06:14	1
Terphenyl-d14	75		36 - 134	03/09/16 16:52	03/11/16 06:14	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:34	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:34	1
<b>Manganese</b>	<b>0.64</b>		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:34	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:34	1
<b>Zinc</b>	<b>1.1</b>	<b>B</b>	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:34	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.055</b>		0.050	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Beryllium</b>	<b>0.0066</b>		0.0040	0.0040	mg/L		03/11/16 08:52	03/12/16 03:45	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Cobalt</b>	<b>0.037</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Iron</b>	<b>120</b>		0.40	0.20	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Lead</b>	<b>0.070</b>		0.0075	0.0075	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Manganese</b>	<b>0.72</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:52	03/12/16 03:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-2(0-1)-030716**

**Lab Sample ID: 500-108435-4**

**Date Collected: 03/07/16 14:42**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 84.3**

**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		03/11/16 08:52	03/12/16 03:45	1
<b>Zinc</b>	<b>0.78</b>		0.50	0.020	mg/L		03/11/16 08:52	03/12/16 03:45	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	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Arsenic</b>	<b>11</b>		0.56	0.26	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Barium</b>	<b>17</b>		0.56	0.10	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Beryllium</b>	<b>0.65</b>		0.22	0.048	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.032	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Cobalt</b>	<b>16</b>		0.28	0.063	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Copper</b>	<b>29</b>		0.56	0.12	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Lead</b>	<b>23</b>		0.28	0.14	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Manganese</b>	<b>340</b>		0.56	0.11	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Nickel</b>	<b>33</b>		0.56	0.15	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Potassium</b>	<b>2500</b>		28	4.6	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Selenium</b>	<b>0.30</b>	<b>J B</b>	0.56	0.28	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	56	7.4	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Thallium</b>	<b>1.0</b>		0.56	0.27	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Vanadium</b>	<b>15</b>		0.28	0.082	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	1
<b>Zinc</b>	<b>120</b>		1.1	0.35	mg/Kg	☼	03/09/16 15:58	03/10/16 13:53	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		03/13/16 16:00	03/14/16 11:30	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		03/10/16 20:00	03/12/16 14:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>37</b>		18	9.3	ug/Kg	☼	03/10/16 19:30	03/13/16 14:55	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			03/09/16 15:59	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-3(0-1)-030716**

**Lab Sample ID: 500-108435-5**

**Date Collected: 03/07/16 14:52**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 02:07	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 02:07	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/09/16 02:07	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 02:07	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 02:07	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 02:07	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 02:07	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 02:07	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 02:07	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 02:07	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 02:07	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/09/16 02:07	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 02:07	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 02:07	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 02:07	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 02:07	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 02:07	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 02:07	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 02:07	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/09/16 02:07	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 02:07	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 02:07	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/09/16 02:07	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 02:07	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/09/16 02:07	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 02:07	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 02:07	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 02:07	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 02:07	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 02:07	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/09/16 02:07	1
Dibromofluoromethane	109		75 - 120		03/09/16 02:07	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/09/16 02:07	1
Toluene-d8 (Surr)	106		75 - 122		03/09/16 02:07	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	☼	03/09/16 16:52	03/11/16 06:44	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-3(0-1)-030716**

**Lab Sample ID: 500-108435-5**

**Date Collected: 03/07/16 14:52**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Benzo[a]pyrene</b>	<b>9.3 J</b>		38	7.4	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Benzo[b]fluoranthene</b>	<b>15 J</b>		38	8.2	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Carbazole	<190		190	95	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Chrysene</b>	<b>10 J</b>		38	10	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Fluoranthene</b>	<b>21 J</b>		38	7.0	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-3(0-1)-030716**

**Lab Sample ID: 500-108435-5**

**Date Collected: 03/07/16 14:52**

**Matrix: Solid**

**Date Received: 03/07/16 16:35**

**Percent Solids: 85.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Isophorone	<190		190	43	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Phenanthrene</b>	<b>11</b>	<b>J</b>	38	5.3	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
Phenol	<190		190	84	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1
<b>Pyrene</b>	<b>19</b>	<b>J</b>	38	7.6	ug/Kg	☼	03/09/16 16:52	03/11/16 06:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137	03/09/16 16:52	03/11/16 06:44	1
2-Fluorobiphenyl	71		25 - 119	03/09/16 16:52	03/11/16 06:44	1
2-Fluorophenol	82		25 - 110	03/09/16 16:52	03/11/16 06:44	1
Nitrobenzene-d5	70		25 - 115	03/09/16 16:52	03/11/16 06:44	1
Phenol-d5	76		31 - 110	03/09/16 16:52	03/11/16 06:44	1
Terphenyl-d14	92		36 - 134	03/09/16 16:52	03/11/16 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		03/11/16 14:59	03/14/16 11:39	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
<b>Iron</b>	<b>0.60</b>		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:39	1
<b>Manganese</b>	<b>0.26</b>		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:39	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:39	1
<b>Zinc</b>	<b>3.0</b>	<b>B</b>	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:39	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/11/16 08:52	03/12/16 03:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 08:52	03/12/16 03:52	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Chromium</b>	<b>0.041</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Copper</b>	<b>0.030</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Iron</b>	<b>38</b>		0.40	0.20	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/11/16 08:52	03/12/16 03:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 08:52	03/12/16 03:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

**Client Sample ID: R43-3(0-1)-030716**

**Lab Sample ID: 500-108435-5**

Date Collected: 03/07/16 14:52

Matrix: Solid

Date Received: 03/07/16 16:35

Percent Solids: 85.4

**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		03/11/16 08:52	03/12/16 03:52	1
<b>Zinc</b>	<b>0.58</b>		0.50	0.020	mg/L		03/11/16 08:52	03/12/16 03:52	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	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Arsenic</b>	<b>3.2</b>		0.54	0.25	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Barium</b>	<b>42</b>		0.54	0.099	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Beryllium</b>	<b>0.26</b>		0.22	0.047	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Cadmium</b>	<b>0.058</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Calcium</b>	<b>2300</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Chromium</b>	<b>8.1</b>	<b>B</b>	0.54	0.093	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Cobalt</b>	<b>4.4</b>		0.27	0.061	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Copper</b>	<b>5.6</b>		0.54	0.12	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Iron</b>	<b>8900</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Lead</b>	<b>9.5</b>		0.27	0.13	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Magnesium</b>	<b>1500</b>	<b>B</b>	5.4	2.2	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Manganese</b>	<b>290</b>		0.54	0.11	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Nickel</b>	<b>6.2</b>		0.54	0.15	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Potassium</b>	<b>470</b>		27	4.4	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Selenium</b>	<b>0.37</b>	<b>J B</b>	0.54	0.27	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Sodium</b>	<b>220</b>	<b>B</b>	54	7.1	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Vanadium</b>	<b>17</b>		0.27	0.079	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	1
<b>Zinc</b>	<b>25</b>		1.1	0.34	mg/Kg	☼	03/09/16 15:58	03/10/16 13:58	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		03/13/16 16:00	03/14/16 11:32	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/10/16 20:00	03/12/16 14:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		17	9.2	ug/Kg	☼	03/10/16 19:30	03/13/16 14:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.96</b>		0.200	0.200	SU			03/09/16 16:03	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## 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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108435-1

## 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
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: 708.53



500-108435 COC

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions Inc. Company: \_\_\_\_\_  
 Address: 300 Plaza Circle, Ste 207 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7250 Phone: \_\_\_\_\_  
 Fax: 224-864-7236 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108435  
 Chain of Custody Number: \_\_\_\_\_  
 Page 1 of 1  
 Temperature °C of Cooler: 3.3, 2.9

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key	
Weston Solutions		02056.014.040.0030		7	7	7	7	7	7	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
IDOT 040 - IL Route 113											
Project Location/State		Lab Project #		Date		Time		Matrix		Comments	
Braidwood, IL											
Sampler		Lab PM		Date		Time		Matrix		Comments	
M. Doherty-Skelton		D. Wright									
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Comments
1		F41-1(0-1)-030716	3-7-16	1410	2	S	VOCS	SVOCs	TOUR/SPR Metals	PH	TOTAL Metals
2		AL42-1(0-1)-030716		1423							
3		R43-1(0-1)-030716		1433							
4		R43-2(0-1)-030716		1442							
5		R43-3(0-1)-030716		1452							
6		AL44-1(0-1)-030716		1515							
7		AL44-1(0-1)-030716D	3-7-16	1515	2	S	X	X	X	X	X
***LAST ITEM***											MDC
											MDC
											MDC

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Per Contract 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>3-7-2016</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/2016</u> Time: <u>1530</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/7/16</u> Time: <u>1635</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:

# 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: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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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 - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-4(0-1)-031416**

**Lab Sample ID: 500-108762-4**

**Date Collected: 03/14/16 14:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 12:18	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/16/16 12:18	1
Bromoform	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 12:18	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 12:18	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 12:18	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 12:18	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 12:18	1
cis-1,2-Dichloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/16/16 12:18	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/16/16 12:18	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 12:18	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 12:18	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 12:18	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 12:18	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 12:18	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/16/16 12:18	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 12:18	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.90	ug/Kg	☼		03/16/16 12:18	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 12:18	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 12:18	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 12:18	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 12:18	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 12:18	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 12:18	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 12:18	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 12:18	1
Dibromofluoromethane	103		75 - 120		03/16/16 12:18	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 12:18	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 12:18	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	☼	03/17/16 07:00	03/25/16 03:31	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-4(0-1)-031416**

**Lab Sample ID: 500-108762-4**

**Date Collected: 03/14/16 14:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**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	☼	03/17/16 07:00	03/25/16 03:31	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>2-Methylnaphthalene</b>	<b>13</b>	<b>J</b>	35	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Anthracene	<35		35	6.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Benzo[a]anthracene	<35	*	35	4.8	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Benzo[a]pyrene	<35	*	35	6.9	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>Benzo[b]fluoranthene</b>	<b>37</b>	<b>*</b>	35	7.7	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Carbazole	<180		180	89	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>Chrysene</b>	<b>42</b>	<b>*</b>	35	9.7	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>Fluoranthene</b>	<b>32</b>	<b>J</b>	35	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-4(0-1)-031416**

**Lab Sample ID: 500-108762-4**

**Date Collected: 03/14/16 14:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.2	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Isophorone	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>Phenanthrene</b>	<b>93</b>		35	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Phenol	<180		180	79	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
<b>Pyrene</b>	<b>110</b>	*	35	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137				03/17/16 07:00	03/25/16 03:31	1
2-Fluorobiphenyl	95		25 - 119				03/17/16 07:00	03/25/16 03:31	1
2-Fluorophenol	94		25 - 110				03/17/16 07:00	03/25/16 03:31	1
Nitrobenzene-d5	90		25 - 115				03/17/16 07:00	03/25/16 03:31	1
Phenol-d5	85		31 - 110				03/17/16 07:00	03/25/16 03:31	1
Terphenyl-d14	195	X *	36 - 134				03/17/16 07:00	03/25/16 03:31	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:05	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:05	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:05	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:05	1
<b>Zinc</b>	<b>0.057</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:05	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.039</b>	<b>J</b>	0.050	0.010	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:32	1
<b>Beryllium</b>	<b>0.0042</b>		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:32	1
<b>Chromium</b>	<b>0.11</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:32	1
<b>Copper</b>	<b>0.082</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Iron</b>	<b>100</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:32	1
<b>Manganese</b>	<b>0.93</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:55	1
<b>Nickel</b>	<b>0.057</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 20:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-4(0-1)-031416**

**Lab Sample ID: 500-108762-4**

**Date Collected: 03/14/16 14:25**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.7**

**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		03/23/16 14:51	03/25/16 02:55	1
<b>Zinc</b>	<b>0.39</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 02:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Arsenic</b>	<b>3.5</b>		0.51	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Barium</b>	<b>26</b>		0.51	0.094	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Beryllium</b>	<b>0.29</b>		0.21	0.045	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Cadmium</b>	<b>0.19</b>		0.10	0.030	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Calcium</b>	<b>17000</b>		10	3.3	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Chromium</b>	<b>6.4</b>		0.51	0.088	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Cobalt</b>	<b>4.1</b>		0.26	0.058	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Copper</b>	<b>13</b>		0.51	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Iron</b>	<b>9000</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Lead</b>	<b>21</b>		0.26	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Magnesium</b>	<b>11000</b>		5.1	2.1	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Manganese</b>	<b>200</b>		0.51	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Nickel</b>	<b>8.0</b>		0.51	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Potassium</b>	<b>490</b>		26	4.2	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Sodium</b>	<b>950</b>		51	6.8	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Vanadium</b>	<b>11</b>		0.26	0.075	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	1
<b>Zinc</b>	<b>45</b>		1.0	0.33	mg/Kg	☼	03/18/16 09:23	03/24/16 01:49	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		03/23/16 09:00	03/23/16 18:29	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		03/23/16 17:00	03/24/16 11:45	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>14</b>	<b>J</b>	17	9.0	ug/Kg	☼	03/21/16 15:30	03/23/16 00:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.27</b>		0.200	0.200	SU			03/17/16 15:05	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-5(0-1)-031416**

**Lab Sample ID: 500-108762-5**

**Date Collected: 03/14/16 14:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/16/16 12:43	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 12:43	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/16/16 12:43	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 12:43	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 12:43	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/16/16 12:43	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 12:43	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 12:43	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/16/16 12:43	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/16/16 12:43	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 12:43	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 12:43	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 12:43	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/16/16 12:43	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/16/16 12:43	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 12:43	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/16/16 12:43	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 12:43	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/16/16 12:43	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 12:43	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 12:43	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 12:43	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 12:43	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 12:43	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 12:43	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 122		03/16/16 12:43	1
Dibromofluoromethane	105		75 - 120		03/16/16 12:43	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/16/16 12:43	1
Toluene-d8 (Surr)	113		75 - 122		03/16/16 12:43	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	40	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-5(0-1)-031416**

**Lab Sample ID: 500-108762-5**

**Date Collected: 03/14/16 14:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.9**

**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	☼	03/17/16 07:00	03/25/16 02:35	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Acenaphthylene	<37		37	4.8	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Anthracene	<37		37	6.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Benzo[a]anthracene	<37 *		37	4.9	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Benzo[a]pyrene	<37 *		37	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Benzo[b]fluoranthene	<37 *		37	7.9	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Carbazole	<180		180	92	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-5(0-1)-031416**

**Lab Sample ID: 500-108762-5**

**Date Collected: 03/14/16 14:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.5	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Phenol	<180		180	82	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Pyrene	<37	*	37	7.3	ug/Kg	☼	03/17/16 07:00	03/25/16 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137				03/17/16 07:00	03/25/16 02:35	1
2-Fluorobiphenyl	85		25 - 119				03/17/16 07:00	03/25/16 02:35	1
2-Fluorophenol	89		25 - 110				03/17/16 07:00	03/25/16 02:35	1
Nitrobenzene-d5	86		25 - 115				03/17/16 07:00	03/25/16 02:35	1
Phenol-d5	79		31 - 110				03/17/16 07:00	03/25/16 02:35	1
Terphenyl-d14	142	X *	36 - 134				03/17/16 07:00	03/25/16 02:35	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:10	1
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:10	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:10	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:10	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.080</b>		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 02:59	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:41	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 02:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:41	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:59	1
<b>Cobalt</b>	<b>0.063</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:41	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:59	1
<b>Iron</b>	<b>210</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 02:59	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:41	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:59	1
<b>Nickel</b>	<b>0.23</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-5(0-1)-031416**

**Lab Sample ID: 500-108762-5**

**Date Collected: 03/14/16 14:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.9**

**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		03/23/16 14:51	03/25/16 02:59	1
<b>Zinc</b>	<b>0.75</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 02:59	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	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Arsenic</b>	<b>6.9</b>		0.56	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Barium</b>	<b>28</b>		0.56	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.049	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Cadmium</b>	<b>0.098</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Calcium</b>	<b>28000</b>		11	3.6	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Chromium</b>	<b>12</b>		0.56	0.097	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Cobalt</b>	<b>10</b>		0.28	0.064	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Copper</b>	<b>17</b>		0.56	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	11	4.4	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Magnesium</b>	<b>17000</b>		5.6	2.3	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Manganese</b>	<b>310</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 12:36	1
<b>Nickel</b>	<b>23</b>		0.56	0.15	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Potassium</b>	<b>1700</b>		28	4.6	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Sodium</b>	<b>470</b>		56	7.4	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Thallium</b>	<b>0.34</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Vanadium</b>	<b>16</b>		0.28	0.082	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1
<b>Zinc</b>	<b>61</b>		1.1	0.36	mg/Kg	☼	03/18/16 09:23	03/24/16 02:01	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:35	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:47	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		18	9.3	ug/Kg	☼	03/21/16 15:30	03/23/16 00:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.60</b>		0.200	0.200	SU			03/17/16 15:10	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-6(0-1)-031416**

**Lab Sample ID: 500-108762-6**

**Date Collected: 03/14/16 14:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/16/16 13:09	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 13:09	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/16/16 13:09	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 13:09	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 13:09	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 13:09	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/16/16 13:09	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/16/16 13:09	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/16/16 13:09	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 13:09	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 13:09	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 13:09	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 13:09	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/16/16 13:09	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/16/16 13:09	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 13:09	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/16/16 13:09	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 13:09	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 13:09	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 13:09	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 13:09	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 13:09	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 13:09	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 13:09	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/16/16 13:09	1
Dibromofluoromethane	105		75 - 120		03/16/16 13:09	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		03/16/16 13:09	1
Toluene-d8 (Surr)	110		75 - 122		03/16/16 13:09	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	☼	03/17/16 07:00	03/25/16 03:03	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-6(0-1)-031416**

**Lab Sample ID: 500-108762-6**

**Date Collected: 03/14/16 14:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
3,3'-Dichlorobenzidine	<200 *		200	55	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Benzo[a]anthracene	<39 *		39	5.3	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Benzo[a]pyrene	<39 *		39	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Benzo[b]fluoranthene	<39 *		39	8.4	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Benzo[g,h,i]perylene	<39 *		39	13	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Benzo[k]fluoranthene	<39 *		39	12	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Bis(2-ethylhexyl) phthalate	<200 *		200	71	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Butyl benzyl phthalate	<200 *		200	74	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Carbazole	<200		200	98	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Chrysene	<39 *		39	11	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Dibenz(a,h)anthracene	<39 *		39	7.5	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-6(0-1)-031416**

**Lab Sample ID: 500-108762-6**

**Date Collected: 03/14/16 14:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Isophorone	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Phenol	<200		200	87	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Pyrene	<39	*	39	7.8	ug/Kg	☼	03/17/16 07:00	03/25/16 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	27	X	35 - 137				03/17/16 07:00	03/25/16 03:03	1
2-Fluorobiphenyl	86		25 - 119				03/17/16 07:00	03/25/16 03:03	1
2-Fluorophenol	87		25 - 110				03/17/16 07:00	03/25/16 03:03	1
Nitrobenzene-d5	87		25 - 115				03/17/16 07:00	03/25/16 03:03	1
Phenol-d5	69		31 - 110				03/17/16 07:00	03/25/16 03:03	1
Terphenyl-d14	142	X *	36 - 134				03/17/16 07:00	03/25/16 03:03	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:15	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:15	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:15	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.076</b>		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:04	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:46	1
<b>Beryllium</b>	<b>0.0078</b>		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:46	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:04	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:46	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:04	1
<b>Iron</b>	<b>190</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:04	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:46	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:04	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:04	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-6(0-1)-031416**

**Lab Sample ID: 500-108762-6**

**Date Collected: 03/14/16 14:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.2**

**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		03/23/16 14:51	03/25/16 03:04	1
<b>Zinc</b>	<b>0.78</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:04	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Arsenic</b>	<b>10</b>		0.48	0.22	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Barium</b>	<b>24</b>		0.48	0.088	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Beryllium</b>	<b>0.53</b>		0.19	0.041	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Cadmium</b>	<b>0.097</b>		0.096	0.028	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Calcium</b>	<b>60000</b>	<b>B</b>	96	31	mg/Kg	☼	03/18/16 09:23	03/24/16 12:46	10
<b>Chromium</b>	<b>13</b>		0.48	0.082	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Cobalt</b>	<b>12</b>		0.24	0.054	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Copper</b>	<b>16</b>		0.48	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	9.6	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Lead</b>	<b>18</b>		0.24	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Magnesium</b>	<b>29000</b>		4.8	1.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Manganese</b>	<b>350</b>	<b>B</b>	0.48	0.095	mg/Kg	☼	03/18/16 09:23	03/24/16 12:41	1
<b>Nickel</b>	<b>28</b>		0.48	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Potassium</b>	<b>1800</b>		24	3.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Sodium</b>	<b>570</b>		48	6.3	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Thallium</b>	<b>0.32</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Vanadium</b>	<b>14</b>		0.24	0.070	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1
<b>Zinc</b>	<b>81</b>		0.96	0.30	mg/Kg	☼	03/18/16 09:23	03/24/16 02:06	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:37	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:49	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>25</b>		17	9.0	ug/Kg	☼	03/21/16 15:30	03/23/16 00:15	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			03/17/16 15:16	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-7(0-1)-031416**

**Lab Sample ID: 500-108762-7**

**Date Collected: 03/14/16 14:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 90.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 13:34	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 13:34	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/16/16 13:34	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 13:34	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 13:34	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 13:34	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/16/16 13:34	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/16/16 13:34	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/16/16 13:34	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 13:34	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 13:34	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/16/16 13:34	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 13:34	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/16/16 13:34	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/16/16 13:34	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 13:34	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/16/16 13:34	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 13:34	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/16/16 13:34	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 13:34	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/16/16 13:34	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 13:34	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/16/16 13:34	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 13:34	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/16/16 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 13:34	1
Dibromofluoromethane	103		75 - 120		03/16/16 13:34	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/16/16 13:34	1
Toluene-d8 (Surr)	110		75 - 122		03/16/16 13:34	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	☼	03/17/16 07:00	03/25/16 19:11	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-7(0-1)-031416**

**Lab Sample ID: 500-108762-7**

**Date Collected: 03/14/16 14:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 90.4**

**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	82	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
3,3'-Dichlorobenzidine	<180 *		180	50	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Anthracene	<35		35	6.0	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Benzo[a]anthracene	<35 *		35	4.8	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Benzo[a]pyrene	<35 *		35	6.9	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Benzo[b]fluoranthene	<35 *		35	7.7	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Benzo[g,h,i]perylene	<35 *		35	12	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Benzo[k]fluoranthene	<35 *		35	11	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Bis(2-ethylhexyl) phthalate	<180 *		180	65	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Butyl benzyl phthalate	<180 *		180	68	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Carbazole	<180		180	89	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Chrysene	<35 *		35	9.7	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Dibenz(a,h)anthracene	<35 *		35	6.9	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Fluoranthene	<35		35	6.6	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-7(0-1)-031416**

**Lab Sample ID: 500-108762-7**

**Date Collected: 03/14/16 14:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 90.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.3	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Isophorone	<180		180	40	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Phenanthrene	<35		35	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Phenol	<180		180	79	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	1
Pyrene	<35	*	35	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 19:11	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	49		35 - 137				03/17/16 07:00	03/25/16 19:11	1
2-Fluorobiphenyl	89		25 - 119				03/17/16 07:00	03/25/16 19:11	1
2-Fluorophenol	83		25 - 110				03/17/16 07:00	03/25/16 19:11	1
Nitrobenzene-d5	65		25 - 115				03/17/16 07:00	03/25/16 19:11	1
Phenol-d5	57		31 - 110				03/17/16 07:00	03/25/16 19:11	1
Terphenyl-d14	206	X *	36 - 134				03/17/16 07:00	03/25/16 19:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 23:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 23:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 23:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 23:20	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 23:20	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 23:20	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 23:20	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 03:09	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 03:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:51	1
<b>Chromium</b>	<b>0.034</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:09	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:51	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:09	1
<b>Iron</b>	<b>39</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 03:09	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:51	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:09	1
<b>Nickel</b>	<b>0.030</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 03:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 03:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R43-7(0-1)-031416**

**Lab Sample ID: 500-108762-7**

**Date Collected: 03/14/16 14:55**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 90.4**

**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		03/23/16 14:51	03/25/16 03:09	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 03:09	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.92		0.92	0.19	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Arsenic</b>	<b>2.6</b>		0.46	0.21	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Barium</b>	<b>25</b>		0.46	0.084	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Beryllium</b>	<b>0.18</b>		0.18	0.040	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Cadmium</b>	<b>0.11</b>		0.092	0.027	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Calcium</b>	<b>9200</b>		9.2	2.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Chromium</b>	<b>4.4</b>		0.46	0.079	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Cobalt</b>	<b>3.2</b>		0.23	0.052	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Copper</b>	<b>4.8</b>		0.46	0.099	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Iron</b>	<b>6400</b>	<b>B</b>	9.2	3.5	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Lead</b>	<b>7.4</b>		0.23	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Magnesium</b>	<b>5700</b>		4.6	1.9	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Manganese</b>	<b>240</b>	<b>B</b>	0.46	0.091	mg/Kg	☼	03/18/16 09:23	03/24/16 12:50	1
<b>Nickel</b>	<b>5.4</b>		0.46	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Potassium</b>	<b>410</b>		23	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
Selenium	<0.46		0.46	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Sodium</b>	<b>320</b>		46	6.0	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Vanadium</b>	<b>8.6</b>		0.23	0.067	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	1
<b>Zinc</b>	<b>23</b>		0.92	0.29	mg/Kg	☼	03/18/16 09:23	03/24/16 02:12	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		03/23/16 09:00	03/23/16 18:39	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:51	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>9.9</b>	<b>J</b>	17	8.7	ug/Kg	☼	03/21/16 15:30	03/23/16 00:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.13</b>		0.200	0.200	SU			03/17/16 15:21	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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 6041  
Phone: 708.534.5200 Fax: 708.534.5



500-108762 COC

Report To (optional)  
Contact: S. Babusalkumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sam  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762

Chain of Custody Number: \_\_\_\_\_

Page 3 of 4

Temperature °C of Cooler: 2.3 2.8 3.0 3.5 3/15/16

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Branch of West Park / IL</u>		<u>D. Wright</u>																	
Sampler		Date		Time															
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP	SAP Metals	PH	Comments						
<u>1</u>		<u>R45-3(0-1)-031416</u>	<u>3-14-16</u>	<u>1400</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>2</u>		<u>R45-4(0-1)-031416</u>		<u>1405</u>															
<u>3</u>		<u>R45-5(0-1)-031416</u>		<u>1420</u>															
<u>4</u>		<u>R43-4(0-1)-031416</u>		<u>1425</u>															
<u>5</u>		<u>R43-5(0-1)-031416</u>		<u>1435</u>															
<u>6</u>		<u>R43-6(0-1)-031416</u>		<u>1445</u>															
<u>7</u>		<u>R43-7(0-1)-031416</u>		<u>1455</u>															
<u>8</u>		<u>R39-2(0-1)-031416</u>		<u>1510</u>															
<u>9</u>		<u>R39-3(0-1)-031416</u>		<u>1525</u>															
<u>10</u>		<u>R39-3(0-1)-031416D</u>	<u>3-14-16</u>	<u>1525</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley</u>	Company <u>TA-CRT</u>	Date <u>3/15/16</u>	Time <u>0725</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: \_\_\_\_\_

# 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. Babuszkiewicz  
 Company: Worston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: Same  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762  
 Chain of Custody Number: \_\_\_\_\_  
 Page 4 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Comments				
<u>Worston</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH
<u>IDOT-040</u>				Date	Time							
Project Location/State		Lab PM										
<u>Bradwood &amp; Galev R/W IL</u>		<u>D. Wright</u>										
Sampler												
<u>T. Walls</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
<u>11</u>		<u>R39-4(0-1)-031416</u>	<u>3-14-16</u>	<u>1535</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>12</u>		<u>R39-5(0-1)-031416</u>		<u>1545</u>								
<u>13</u>		<u>W037-1(0-1)-031416</u>		<u>1555</u>								
<u>14</u>		<u>AL32-3(0-1)-031416</u>		<u>1605</u>								
<u>15</u>		<u>AL32-4(0-1)-031416</u>		<u>1615</u>								
<u>16</u>		<u>AL32-5(0-1)-031416</u>		<u>1620</u>								
<u>17</u>		<u>F30-1(0-1)-031416</u>	<u>3-14-16</u>	<u>1630</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<del><u>7. Walls 3-14-16</u></del>												

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Worston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Daniel Bednar</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CERT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
22000 block of W. IL 113, (ISGS Site No. 2948-44)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.256145403 Longitude: -88.140051295  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113Latitude: 41.256145403 Longitude: -88.140051295Uncontaminated 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 AL44-2 AND AL44-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-44. SEE FIGURE 3-7 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: 500-108492-1.  
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

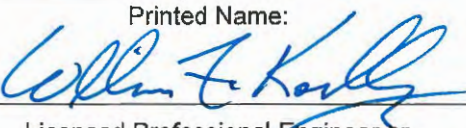
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:



**Summary Table of ISGS Site No. 2948-44**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AL44-2(0-1)-030816	AL44-3(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	
Location ID	AL44-2	AL44-3	
Depth	0 - 1	0 - 1	
Location Code	2948-44	2948-44	
<b>Parameter</b>			
Laboratory pH	8.55	7.8	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	26 J	14 J	900 / 1100 / 1800
Benzo(a)pyrene	50	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	51	ND	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	29 J	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	11 J	1.6 J	11.3 / 13
Barium, Total	31	13	1500
Beryllium, Total	0.39	0.14 J	22
Cadmium, Total	0.13 J-	0.098 J-	5.2
Calcium, Total	65000 J	5900 J	---
Chromium, Total	9.4 J	8.9 J	21
Iron, Total	17000 J+	4900 J+	15000 / 15900
Lead, Total	27 J	13 J	107
Manganese, Total	490 J	130 J	630 / 636
Mercury, Total	0.044	ND	0.89
Nickel, Total	16 J+	4.2 J+	100
Potassium, Total	660 J	300 J	---
Selenium, Total	0.48 J	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	59	18	5100
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.25 J	0.13 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.15	0.98	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	2.4 B	ND	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.057	ND	0.05
Barium, SPLP	0.33 J	0.061 J	2
Beryllium, SPLP	0.0048	ND	0.004
Cadmium, SPLP	0.0029 J	ND	0.005
Chromium, SPLP	0.12	0.021 J	0.1
Iron, SPLP	160 J-	20 J-	5
Lead, SPLP	0.13	0.042	0.0075
Manganese, SPLP	0.91	0.32	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.12	0.016 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.65	0.15 J	5

**Summary Table of ISGS Site No. 2948-44**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-2(0-1)-030816**

**Lab Sample ID: 500-108492-1**

**Date Collected: 03/08/16 08:50**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 83.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/10/16 03:24	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 03:24	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/10/16 03:24	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 03:24	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 03:24	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 03:24	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/10/16 03:24	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/10/16 03:24	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/10/16 03:24	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 03:24	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 03:24	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 03:24	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 03:24	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/10/16 03:24	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/10/16 03:24	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 03:24	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/10/16 03:24	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 03:24	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 03:24	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 03:24	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 03:24	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 03:24	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 03:24	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 03:24	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/10/16 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/10/16 03:24	1
Dibromofluoromethane	107		75 - 120		03/10/16 03:24	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/10/16 03:24	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 03:24	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	☼	03/10/16 07:16	03/15/16 00:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
1,3-Dichlorobenzene	<190	F1	190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-2(0-1)-030816**

**Lab Sample ID: 500-108492-1**

**Date Collected: 03/08/16 08:50**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,4-Dichlorophenol	<380	F1	380	91	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,4-Dinitrophenol	<770	F1	770	680	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>2-Methylnaphthalene</b>	<b>13</b>	<b>J</b>	38	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
3-Nitroaniline	<380	F1	380	120	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4,6-Dinitro-2-methylphenol	<770	F1	770	310	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Chloro-3-methylphenol	<380	F1	380	130	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Chloroaniline	<770	F1	770	180	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
4-Nitrophenol	<770		770	370	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Acenaphthylene</b>	<b>29</b>	<b>J</b>	38	5.1	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Anthracene</b>	<b>11</b>	<b>J</b>	38	6.4	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Benzo[a]anthracene</b>	<b>26</b>	<b>J</b>	38	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Benzo[a]pyrene</b>	<b>50</b>		38	7.4	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Benzo[b]fluoranthene</b>	<b>51</b>		38	8.3	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Benzo[g,h,i]perylene</b>	<b>42</b>		38	12	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Benzo[k]fluoranthene</b>	<b>17</b>	<b>J</b>	38	11	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Bis(2-ethylhexyl) phthalate	<190	F1	190	70	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Butyl benzyl phthalate	<190	F1	190	73	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Carbazole	<190		190	96	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Chrysene</b>	<b>39</b>		38	10	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Di-n-octyl phthalate	<190	F1	190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Fluoranthene</b>	<b>44</b>		38	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Hexachlorobutadiene	<190	F1	190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Hexachlorocyclopentadiene	<770	F1	770	220	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Hexachloroethane	<190	F1	190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-2(0-1)-030816**

**Lab Sample ID: 500-108492-1**

**Date Collected: 03/08/16 08:50**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 83.0**

**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>29</b>	<b>J</b>	38	10	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Naphthalene</b>	<b>7.1</b>	<b>J</b>	38	5.9	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
N-Nitrosodiphenylamine	<190	F1	190	45	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Pentachlorophenol	<770	F1	770	620	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Phenanthrene</b>	<b>70</b>		38	5.4	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
Phenol	<190		190	85	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	1
<b>Pyrene</b>	<b>60</b>	<b>F1</b>	38	7.6	ug/Kg	☼	03/10/16 07:16	03/15/16 00:50	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	54		35 - 137				03/10/16 07:16	03/15/16 00:50	1
2-Fluorobiphenyl	80		25 - 119				03/10/16 07:16	03/15/16 00:50	1
2-Fluorophenol	91		25 - 110				03/10/16 07:16	03/15/16 00:50	1
Nitrobenzene-d5	77		25 - 115				03/10/16 07:16	03/15/16 00:50	1
Phenol-d5	81		31 - 110				03/10/16 07:16	03/15/16 00:50	1
Terphenyl-d14	96		36 - 134				03/10/16 07:16	03/15/16 00:50	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		03/13/16 15:00	03/14/16 22:33	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 22:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 22:33	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 22:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 22:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 22:33	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 22:33	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:33	1
<b>Zinc</b>	<b>2.4</b>	<b>B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 22:33	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		03/13/16 15:00	03/14/16 18:56	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Beryllium</b>	<b>0.0048</b>		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J ^</b>	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Iron</b>	<b>160</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:56	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-2(0-1)-030816**

**Lab Sample ID: 500-108492-1**

**Date Collected: 03/08/16 08:50**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 83.0**

**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		03/13/16 15:00	03/14/16 18:56	1
<b>Zinc</b>	<b>0.65</b>		0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:56	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.33</b>	<b>J F1</b>	1.0	0.21	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Arsenic</b>	<b>11</b>	<b>F1</b>	0.52	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Barium</b>	<b>31</b>		0.52	0.095	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Beryllium</b>	<b>0.39</b>		0.21	0.045	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Cadmium</b>	<b>0.13</b>	<b>F1</b>	0.10	0.030	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Calcium</b>	<b>65000</b>	<b>B F2</b>	100	33	mg/Kg	☼	03/14/16 09:24	03/16/16 14:52	10
<b>Chromium</b>	<b>9.4</b>	<b>F1 B</b>	2.6	0.089	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Cobalt</b>	<b>7.9</b>		0.26	0.058	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Copper</b>	<b>13</b>		0.52	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Lead</b>	<b>27</b>	<b>F2</b>	0.26	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Magnesium</b>	<b>32000</b>	<b>F2 B</b>	5.2	2.1	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Manganese</b>	<b>490</b>	<b>F2</b>	0.52	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Nickel</b>	<b>16</b>	<b>F1 B</b>	0.52	0.14	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Potassium</b>	<b>660</b>	<b>F1</b>	26	4.2	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Selenium</b>	<b>0.48</b>	<b>J F1</b>	0.52	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
Silver	<0.26	F1	0.26	0.060	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Sodium</b>	<b>470</b>		52	6.8	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Vanadium</b>	<b>17</b>	<b>F1</b>	0.26	0.075	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1
<b>Zinc</b>	<b>59</b>		1.0	0.33	mg/Kg	☼	03/14/16 09:24	03/14/16 18:32	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:58	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		03/13/16 18:00	03/15/16 15:47	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>44</b>		18	9.6	ug/Kg	☼	03/15/16 16:45	03/16/16 17:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.55</b>		0.200	0.200	SU			03/10/16 13:29	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-3(0-1)-030816**

**Lab Sample ID: 500-108492-2**

**Date Collected: 03/08/16 09:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 89.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 03:50	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 03:50	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/10/16 03:50	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 03:50	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 03:50	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 03:50	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 03:50	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/10/16 03:50	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 03:50	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 03:50	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 03:50	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 03:50	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/10/16 03:50	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 03:50	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 03:50	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 03:50	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 03:50	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 03:50	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 03:50	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 03:50	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 03:50	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/10/16 03:50	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 03:50	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/10/16 03:50	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 03:50	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 03:50	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 03:50	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 03:50	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 03:50	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/10/16 03:50	1
Dibromofluoromethane	111		75 - 120		03/10/16 03:50	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/10/16 03:50	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 03:50	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-3(0-1)-030816**

**Lab Sample ID: 500-108492-2**

**Date Collected: 03/08/16 09:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 89.4**

**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	85	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>2-Methylnaphthalene</b>	<b>13</b>	<b>J</b>	37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Anthracene</b>	<b>6.5</b>	<b>J</b>	37	6.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Benzo[a]anthracene</b>	<b>14</b>	<b>J</b>	37	5.0	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Benzo[a]pyrene	<37	*	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Benzo[b]fluoranthene	<37	*	37	8.0	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Benzo[g,h,i]perylene	<37	*	37	12	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Benzo[k]fluoranthene	<37	*	37	11	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Chrysene</b>	<b>23</b>	<b>J</b>	37	10	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Fluoranthene</b>	<b>40</b>		37	6.9	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-3(0-1)-030816**

**Lab Sample ID: 500-108492-2**

**Date Collected: 03/08/16 09:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 89.4**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Naphthalene</b>	<b>7.2</b>	<b>J</b>	37	5.7	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Phenanthrene</b>	<b>130</b>		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
<b>Pyrene</b>	<b>37</b>		37	7.4	ug/Kg	☼	03/10/16 07:16	03/15/16 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		35 - 137				03/10/16 07:16	03/15/16 01:19	1
2-Fluorobiphenyl	87		25 - 119				03/10/16 07:16	03/15/16 01:19	1
2-Fluorophenol	93		25 - 110				03/10/16 07:16	03/15/16 01:19	1
Nitrobenzene-d5	82		25 - 115				03/10/16 07:16	03/15/16 01:19	1
Phenol-d5	89		31 - 110				03/10/16 07:16	03/15/16 01:19	1
Terphenyl-d14	104		36 - 134				03/10/16 07:16	03/15/16 01:19	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 22:40	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 22:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 22:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 22:40	1
<b>Manganese</b>	<b>0.98</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 22:40	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 22:40	1
<b>Zinc</b>	<b>0.041</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 22:40	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Barium</b>	<b>0.061</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 19:03	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Chromium</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Iron</b>	<b>20</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Lead</b>	<b>0.042</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 19:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AL44-3(0-1)-030816**

**Lab Sample ID: 500-108492-2**

**Date Collected: 03/08/16 09:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 89.4**

**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		03/13/16 15:00	03/14/16 19:03	1
<b>Zinc</b>	<b>0.15</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 19:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.89		0.89	0.18	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Arsenic</b>	<b>1.6</b>		0.44	0.21	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Barium</b>	<b>13</b>		0.44	0.081	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.18	0.038	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Cadmium</b>	<b>0.098</b>		0.089	0.026	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Calcium</b>	<b>5900</b>	<b>B</b>	8.9	2.9	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Chromium</b>	<b>8.9</b>	<b>B</b>	2.2	0.076	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Cobalt</b>	<b>1.9</b>		0.22	0.050	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Copper</b>	<b>3.6</b>		0.44	0.096	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Iron</b>	<b>4900</b>	<b>B</b>	8.9	3.4	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Lead</b>	<b>13</b>		0.22	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Magnesium</b>	<b>3600</b>	<b>B</b>	4.4	1.8	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Manganese</b>	<b>130</b>		0.44	0.088	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Nickel</b>	<b>4.2</b>	<b>B</b>	0.44	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Potassium</b>	<b>300</b>		22	3.6	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
Selenium	<0.44		0.44	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Sodium</b>	<b>800</b>		44	5.9	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
Thallium	<0.44		0.44	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Vanadium</b>	<b>8.2</b>		0.22	0.065	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	1
<b>Zinc</b>	<b>18</b>		0.89	0.28	mg/Kg	☼	03/14/16 09:24	03/14/16 18:56	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		03/13/16 18:00	03/15/16 13:00	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		03/13/16 18:00	03/15/16 14:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.5	ug/Kg	☼	03/15/16 16:45	03/16/16 17:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.80</b>		0.200	0.200	SU			03/10/16 13:31	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534



500-108492 COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of \_\_\_\_\_  
Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		VOCs	SVOCs	Total Metals	TOC/SP/ Metals	pH		
Project Location/State		Lab PM		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments
1		AL44-2(0-1)-030816	3-8-16	0850	2	S	X	X	X	X	X	
2		AL44-3(0-1)-030816		0910								
3		R46-1(0-1)-030816		0917								
4		R46-2(0-1)-030816		0938								
5		R46-3(0-1)-030816		0947								
6		R47-1(0-1)-030816		1000								
7		AB49-1(0-1)-030816		1010								
8		WLS1-1(0-1)-030816		1020								
9		F53-1(0-1)-030816		1035								
10		F53-2(0-1)-030816	3-8-16	1045	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Pls Contact 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>omj. jolly, ill</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>NO</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: S. Bahns-Kumar  
 Company: Weston Solutions Inc  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

Bill To (optional)  
 Contact: SAME  
 Company:  
 Address:  
 Address:  
 Phone:  
 Fax:  
 PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Matrix		Comments			
Project Location/State		Lab Project #		Parameter		Matrix					
Sampler		Lab PM		Parameter		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TOXIC Metals	PH
11		F53-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X	X	X
12		WLS7-1(0-1)-030816		1105							
13		WLS7-2(0-1)-030816		1117							
14		WLS7-3(0-1)-030816		1127							
15		WLS7-4(0-1)-030816		1139							
16		R63-1(0-1)-030816		1220							
17		R66-1(0-1)-030816		1237							
18		R66-2(0-1)-030816		1250							
19		AL67-1(0-1)-030816		1317							
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Recontact Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Doherty-Skibic</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
21926-22044 W. IL 113 and 34465 S. Davy Ln. (ISGS Site No. 2948-45)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.255539243 Longitude: -88.139529512  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.



Project Name: FAU 327: Illinois Route 113Latitude: 41.255539243 Longitude: -88.139529512Uncontaminated 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 R45-1 THROUGH R45-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-45. SEE FIGURE 3-7 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: 500-108761-1 AND 500-108762-1.  
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

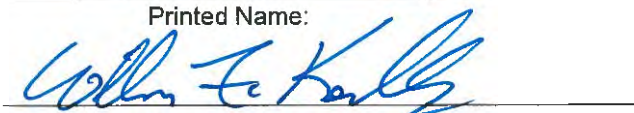
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 MAY 2016

Date:



P.E. or P.G. Seal:

**Summary Table of ISGS Site No. 2948-45**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R45-1(0-1)-031416	R45-2(0-1)-031416	R45-2(0-1)-031416D	R45-3(0-1)-031416	R45-4(0-1)-031416	R45-5(0-1)-031416	Soil Reference Concentrations
Sample Date	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R45-1	R45-2	R45-2	R45-3	R45-4	R45-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-45	2948-45	2948-45	2948-45	2948-45	2948-45	
<b>Parameter</b>							
Laboratory pH	7.62	8.91	8.84	7.52	7.7	7.91	<6.25,>9.0
<b>VOCs (ug/kg)</b>	None Detected						
<b>SVOCs (ug/kg)</b>							
Benzo(a)anthracene	ND	33 J	ND	ND	ND	ND	900 / 1100 / 1800
Benzo(b)fluoranthene	ND	90 J	ND	ND	ND	ND	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>							
Arsenic, Total	1.5 J-	2.2 J-	2.4 J-	4.8 J-	4.2 J-	3.3 J-	11.3 / 13
Barium, Total	14 J-	18 J-	18 J-	66 J-	35 J-	24 J-	1500
Beryllium, Total	0.12 J	0.22 J-	0.21 J	0.82 J-	0.29 J-	0.21 J-	22
Cadmium, Total	ND	0.063 J	0.07 J	ND	ND	0.064 J	5.2
Calcium, Total	2200 J	20000 J	19000 J	1700 J-	1700 J-	5200 J-	---
Chromium, Total	4.9 J-	5.3 J-	5.4 J-	17	9.4	6.2	21
Iron, Total	4700 J	6300 J	6800 J	17000 J+	12000 J+	9400 J+	15000 / 15900
Lead, Total	6.8 J+	16 J+	18 J+	15	9	5	107
Manganese, Total	63 J	130 J	140 J	190 J-	190 J-	300 J-	630 / 636
Mercury, Total	ND	0.014 J	0.016 J	0.029 J	0.013 J	0.0099 J	0.89
Nickel, Total	3.2	6	6.4	19	9.1	10	100
Potassium, Total	210 J	510 J	520 J	610 J+	350 J+	400 J+	---
Selenium, Total	ND	ND	ND	ND	0.34 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	10 J	23 J	23 J	38 J+	19 J+	21 J+	5100
<b>TCLP Metals (mg/l)</b>							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.15 J	0.22 J	0.25 J	0.17 J	0.27 J	0.25 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	0.22 J	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.18	0.55	0.56	0.08 J+	6.6 J+	0.66 J+	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.018 J	0.01 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	0.02 J	ND	ND	ND	0.044 J	5

**Summary Table of ISGS Site No. 2948-45**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R45-1(0-1)-031416	R45-2(0-1)-031416	R45-2(0-1)-031416D	R45-3(0-1)-031416	R45-4(0-1)-031416	R45-5(0-1)-031416	Soil Reference Concentrations
Sample Date	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R45-1	R45-2	R45-2	R45-3	R45-4	R45-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-45	2948-45	2948-45	2948-45	2948-45	2948-45	
Parameter							
<b>SPLP Metals (mg/l)</b>							
Arsenic, SPLP	ND	0.01 J	0.018 J	ND	0.082	0.036 J	0.05
Barium, SPLP	0.09 J	0.18 J	0.31 J	0.27 J	0.62	0.26 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.006	0.004	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.026	0.037	0.067	ND	0.18	0.09	0.1
Iron, SPLP	25 J+	38 J+	65 J+	1.1	230	110	5
Lead, SPLP	0.039	0.077	0.1	ND	0.13	0.054	0.0075
Manganese, SPLP	0.21	0.37	0.53	0.014 J	2	0.59	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.017 J	0.031	0.056	ND	0.18	0.081	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	ND	ND	0.32 J	0.45 J	0.34 J	5

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108761-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:08:00 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-1(0-1)-031416**

**Lab Sample ID: 500-108761-18**

**Date Collected: 03/14/16 13:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 22:21	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 22:21	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 22:21	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 22:21	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 22:21	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 22:21	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 22:21	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/16/16 22:21	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/16/16 22:21	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 22:21	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 22:21	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 22:21	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 22:21	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 22:21	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 22:21	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 22:21	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/16/16 22:21	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 22:21	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 22:21	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 22:21	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 22:21	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 22:21	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 22:21	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 22:21	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 22:21	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 22:21	1
Dibromofluoromethane	112		75 - 120		03/16/16 22:21	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 22:21	1
Toluene-d8 (Surr)	115		75 - 122		03/16/16 22:21	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	40	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-1(0-1)-031416**

**Lab Sample ID: 500-108761-18**

**Date Collected: 03/14/16 13:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**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	<370		370	84	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Acenaphthylene	<37		37	4.8	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Anthracene	<37		37	6.1	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Benzo[a]anthracene	<37 *		37	4.9	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Benzo[a]pyrene	<37 *		37	7.1	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Benzo[b]fluoranthene	<37 *		37	7.9	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Carbazole	<180		180	92	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
<b>Fluoranthene</b>	<b>8.3 J</b>		37	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-1(0-1)-031416**

**Lab Sample ID: 500-108761-18**

**Date Collected: 03/14/16 13:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**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	<37	*	37	9.5	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
<b>Phenanthrene</b>	<b>13</b>	<b>J</b>	37	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Phenol	<180		180	82	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
<b>Pyrene</b>	<b>22</b>	<b>J *</b>	37	7.3	ug/Kg	☼	03/17/16 07:08	03/24/16 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				03/17/16 07:08	03/24/16 07:30	1
2-Fluorobiphenyl	97		25 - 119				03/17/16 07:08	03/24/16 07:30	1
2-Fluorophenol	111	X	25 - 110				03/17/16 07:08	03/24/16 07:30	1
Nitrobenzene-d5	95		25 - 115				03/17/16 07:08	03/24/16 07:30	1
Phenol-d5	85		31 - 110				03/17/16 07:08	03/24/16 07:30	1
Terphenyl-d14	209	X *	36 - 134				03/17/16 07:08	03/24/16 07:30	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
<b>Iron</b>	<b>0.22</b>	<b>J</b>	0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:57	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:57	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:57	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:57	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		03/23/16 14:49	03/25/16 01:50	1
<b>Barium</b>	<b>0.090</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:27	1
<b>Chromium</b>	<b>0.026</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:27	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:50	1
<b>Iron</b>	<b>25</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:50	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:27	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:50	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-1(0-1)-031416**

**Lab Sample ID: 500-108761-18**

**Date Collected: 03/14/16 13:35**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.1**

**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		03/23/16 14:49	03/25/16 01:50	1
<b>Zinc</b>	<b>0.26</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:50	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	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Arsenic</b>	<b>1.5</b>		0.54	0.25	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Barium</b>	<b>14</b>		0.54	0.099	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Beryllium</b>	<b>0.12</b>	<b>J</b>	0.22	0.047	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Chromium</b>	<b>4.9</b>		0.54	0.093	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Cobalt</b>	<b>1.3</b>		0.27	0.061	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Copper</b>	<b>2.2</b>		0.54	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Iron</b>	<b>4700</b>		11	4.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Lead</b>	<b>6.8</b>		0.27	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Magnesium</b>	<b>780</b>	<b>B ^</b>	5.4	2.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Manganese</b>	<b>63</b>		0.54	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Nickel</b>	<b>3.2</b>		0.54	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Potassium</b>	<b>210</b>		27	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Sodium</b>	<b>200</b>	<b>B</b>	54	7.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Vanadium</b>	<b>8.8</b>		0.27	0.079	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1
<b>Zinc</b>	<b>10</b>		1.1	0.34	mg/Kg	☼	03/17/16 14:03	03/25/16 06:55	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:04	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.6	ug/Kg	☼	03/21/16 15:30	03/22/16 23:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.62</b>		0.200	0.200	SU			03/17/16 14:27	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416**

**Lab Sample ID: 500-108761-19**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 22:45	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 22:45	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/16/16 22:45	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 22:45	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 22:45	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 22:45	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 22:45	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 22:45	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 22:45	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 22:45	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 22:45	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/16/16 22:45	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 22:45	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 22:45	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 22:45	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 22:45	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 22:45	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 22:45	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 22:45	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/16/16 22:45	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 22:45	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 22:45	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 22:45	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 22:45	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 22:45	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 22:45	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 22:45	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 22:45	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 22:45	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 22:45	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 22:45	1
Dibromofluoromethane	111		75 - 120		03/16/16 22:45	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 22:45	1
Toluene-d8 (Surr)	118		75 - 122		03/16/16 22:45	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	☼	03/17/16 07:08	03/25/16 05:03	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416**

**Lab Sample ID: 500-108761-19**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>2-Methylnaphthalene</b>	<b>19</b>	<b>J</b>	35	6.5	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Acenaphthylene</b>	<b>43</b>		35	4.6	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Anthracene</b>	<b>8.9</b>	<b>J</b>	35	5.9	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Benzo[a]anthracene</b>	<b>33</b>	<b>J *</b>	35	4.7	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Benzo[a]pyrene	<35	*	35	6.8	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Benzo[b]fluoranthene</b>	<b>90</b>	<b>*</b>	35	7.6	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Benzo[g,h,i]perylene</b>	<b>88</b>	<b>*</b>	35	11	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Benzo[k]fluoranthene</b>	<b>25</b>	<b>J *</b>	35	10	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Bis(2-ethylhexyl) phthalate	<180	*	180	64	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Carbazole	<180		180	88	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Chrysene</b>	<b>37</b>	<b>*</b>	35	9.6	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Fluoranthene</b>	<b>23</b>	<b>J</b>	35	6.5	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416**

**Lab Sample ID: 500-108761-19**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Isophorone	<180		180	39	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Naphthalene</b>	<b>5.7</b>	<b>J</b>	35	5.4	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Phenanthrene</b>	<b>50</b>		35	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Phenol	<180		180	78	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
<b>Pyrene</b>	<b>130</b>	*	35	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137				03/17/16 07:08	03/25/16 05:03	1
2-Fluorobiphenyl	97		25 - 119				03/17/16 07:08	03/25/16 05:03	1
2-Fluorophenol	113	X	25 - 110				03/17/16 07:08	03/25/16 05:03	1
Nitrobenzene-d5	90		25 - 115				03/17/16 07:08	03/25/16 05:03	1
Phenol-d5	93		31 - 110				03/17/16 07:08	03/25/16 05:03	1
Terphenyl-d14	276	X*	36 - 134				03/17/16 07:08	03/25/16 05:03	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 22:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 22:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 22:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 22:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 22:02	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 22:02	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:02	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 22:02	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/23/16 14:49	03/25/16 02:02	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 02:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:39	1
<b>Chromium</b>	<b>0.037</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:02	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:39	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:02	1
<b>Iron</b>	<b>38</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 02:02	1
<b>Lead</b>	<b>0.077</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:39	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:02	1
<b>Nickel</b>	<b>0.031</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 02:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416**

**Lab Sample ID: 500-108761-19**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 88.8**

**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		03/23/16 14:49	03/25/16 02:02	1
<b>Zinc</b>	<b>0.50</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 02:02	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	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Arsenic</b>	<b>2.2</b>		0.54	0.25	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Barium</b>	<b>18</b>		0.54	0.099	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Beryllium</b>	<b>0.22</b>		0.22	0.047	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Cadmium</b>	<b>0.063</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Calcium</b>	<b>20000</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Chromium</b>	<b>5.3</b>		0.54	0.093	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Cobalt</b>	<b>2.6</b>		0.27	0.061	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Copper</b>	<b>4.9</b>		0.54	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Iron</b>	<b>6300</b>		11	4.1	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Lead</b>	<b>16</b>		0.27	0.13	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Magnesium</b>	<b>10000</b>	<b>B ^</b>	5.4	2.2	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Manganese</b>	<b>130</b>		0.54	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Nickel</b>	<b>6.0</b>		0.54	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Potassium</b>	<b>510</b>		27	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Sodium</b>	<b>590</b>	<b>B</b>	54	7.1	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Vanadium</b>	<b>9.2</b>		0.27	0.079	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1
<b>Zinc</b>	<b>23</b>		1.1	0.34	mg/Kg	☼	03/17/16 14:03	03/25/16 07:06	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:06	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		03/23/16 17:00	03/24/16 11:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>14</b>	<b>J</b>	16	8.6	ug/Kg	☼	03/21/16 15:30	03/22/16 23:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.91</b>		0.200	0.200	SU			03/17/16 14:33	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416D**

**Lab Sample ID: 500-108761-20**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 23:10	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 23:10	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/16/16 23:10	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 23:10	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 23:10	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 23:10	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 23:10	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 23:10	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 23:10	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 23:10	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/16/16 23:10	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 23:10	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 23:10	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 23:10	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 23:10	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 23:10	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 23:10	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 23:10	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/16/16 23:10	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 23:10	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 23:10	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 23:10	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 23:10	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/16/16 23:10	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 23:10	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 23:10	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 23:10	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 23:10	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 23:10	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 23:10	1
Dibromofluoromethane	111		75 - 120		03/16/16 23:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 23:10	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 23:10	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	☼	03/17/16 07:08	03/25/16 05:32	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416D**

**Lab Sample ID: 500-108761-20**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
<b>Acenaphthylene</b>	<b>16 J</b>		36	4.8	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Benzo[a]anthracene	<36 *		36	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Benzo[a]pyrene	<36 *		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Benzo[b]fluoranthene	<36 *		36	7.8	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Carbazole	<180		180	91	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
<b>Chrysene</b>	<b>17 J *</b>		36	9.9	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
<b>Fluoranthene</b>	<b>10 J</b>		36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416D**

**Lab Sample ID: 500-108761-20**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.3**

**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	<36	*	36	9.4	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
<b>Phenanthrene</b>	<b>26</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
<b>Pyrene</b>	<b>83</b>	<b>*</b>	36	7.2	ug/Kg	☼	03/17/16 07:08	03/25/16 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/17/16 07:08	03/25/16 05:32	1
2-Fluorobiphenyl	94		25 - 119				03/17/16 07:08	03/25/16 05:32	1
2-Fluorophenol	106		25 - 110				03/17/16 07:08	03/25/16 05:32	1
Nitrobenzene-d5	89		25 - 115				03/17/16 07:08	03/25/16 05:32	1
Phenol-d5	93		31 - 110				03/17/16 07:08	03/25/16 05:32	1
Terphenyl-d14	264	X *	36 - 134				03/17/16 07:08	03/25/16 05:32	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 22:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 22:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 22:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 22:08	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 22:08	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 22:08	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:26	03/24/16 22:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		03/23/16 14:49	03/25/16 02:06	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 02:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:43	1
<b>Chromium</b>	<b>0.067</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:06	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:43	1
<b>Copper</b>	<b>0.059</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:06	1
<b>Iron</b>	<b>65</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 02:06	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:43	1
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:06	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 02:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 02:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R45-2(0-1)-031416D**

**Lab Sample ID: 500-108761-20**

**Date Collected: 03/14/16 13:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.3**

**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		03/23/16 14:49	03/25/16 02:06	1
<b>Zinc</b>	<b>0.36</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 02:06	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	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Arsenic</b>	<b>2.4</b>		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Barium</b>	<b>18</b>		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Beryllium</b>	<b>0.21</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Cadmium</b>	<b>0.070</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Chromium</b>	<b>5.4</b>		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Cobalt</b>	<b>2.9</b>		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Copper</b>	<b>4.9</b>		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Iron</b>	<b>6800</b>		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Lead</b>	<b>18</b>		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Magnesium</b>	<b>9700</b>	<b>B ^</b>	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Manganese</b>	<b>140</b>		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Nickel</b>	<b>6.4</b>		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Potassium</b>	<b>520</b>		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Sodium</b>	<b>570</b>	<b>B</b>	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Vanadium</b>	<b>9.3</b>		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1
<b>Zinc</b>	<b>23</b>		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 07:11	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:12	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		03/23/16 17:00	03/24/16 11:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J</b>	17	9.1	ug/Kg	☼	03/21/16 15:30	03/22/16 23:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.84</b>		0.200	0.200	SU			03/17/16 14:43	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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. Babusukumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: same  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108761  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>INDOT-040</u>											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
<u>Bridgeland Center Park / IL</u>		<u>D. Wright</u>									
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>T. Walls</u>		<u>D. Wright</u>									
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TRP/SBP Metals	pH
<u>11</u>		<u>R55-1(0-1)-031416</u>	<u>3-14-16</u>	<u>1205</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>
<u>12</u>		<u>CPSY-1(0-1)-031416</u>		<u>1215</u>							
<u>13</u>		<u>CPSB-1(0-1)-031416</u>		<u>1220</u>							
<u>14</u>		<u>EG-1(0-1)-031416</u>		<u>1240</u>							
<u>15</u>		<u>R48-1(0-1)-031416</u>		<u>1245</u>							
<u>16</u>		<u>R48-2(0-1)-031416</u>		<u>1300</u>							
<u>17</u>		<u>R48-3(0-1)-031416</u>		<u>1315</u>							
<u>18</u>		<u>R45-1(0-1)-031417</u>		<u>1335</u>							
<u>19</u>		<u>R45-2(0-1)-031417</u>		<u>1345</u>							
<u>20</u>		<u>R45-2(0-1)-031417D</u>	<u>3-14-16</u>	<u>1345</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days skunked 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>
Relinquished By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Theresa</u>	Company <u>TA-CPE</u>	Date <u>3/15/16</u>	Time <u>0725</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: \_\_\_\_\_  
 Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108762-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:46:50 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-3(0-1)-031416**

**Lab Sample ID: 500-108762-1**

**Date Collected: 03/14/16 14:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 81.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/16/16 11:03	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/16/16 11:03	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 11:03	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/16/16 11:03	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/16/16 11:03	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 11:03	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/16/16 11:03	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 11:03	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 11:03	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 11:03	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/16/16 11:03	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 11:03	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		03/16/16 11:03	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/16/16 11:03	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/16/16 11:03	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/16/16 11:03	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 11:03	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/16/16 11:03	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/16/16 11:03	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/16/16 11:03	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 11:03	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/16/16 11:03	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 11:03	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/16/16 11:03	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 11:03	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/16/16 11:03	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 11:03	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 11:03	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/16/16 11:03	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 11:03	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/16/16 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		03/16/16 11:03	1
Dibromofluoromethane	105		75 - 120		03/16/16 11:03	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		03/16/16 11:03	1
Toluene-d8 (Surr)	110		75 - 122		03/16/16 11:03	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-3(0-1)-031416**

**Lab Sample ID: 500-108762-1**

**Date Collected: 03/14/16 14:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 81.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400	F2	400	91	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,4-Dinitrophenol	<810	F1	810	700	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
3,3'-Dichlorobenzidine	<200	*	200	56	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4,6-Dinitro-2-methylphenol	<810	F1	810	320	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
4-Nitrophenol	<810	F2	810	380	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Benzo[a]anthracene	<40	*	40	5.4	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Benzo[a]pyrene	<40	*	40	7.7	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Benzo[b]fluoranthene	<40	*	40	8.6	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Benzo[g,h,i]perylene	<40	*	40	13	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Benzo[k]fluoranthene	<40	*	40	12	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Bis(2-ethylhexyl) phthalate	<200	* F1	200	73	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Butyl benzyl phthalate	<200	* F1	200	76	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Carbazole	<200		200	100	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Chrysene	<40	*	40	11	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Dibenz(a,h)anthracene	<40	*	40	7.7	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Hexachlorocyclopentadiene	<810	F1	810	230	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-3(0-1)-031416**

**Lab Sample ID: 500-108762-1**

**Date Collected: 03/14/16 14:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 81.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40	*	40	10	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Isophorone	<200		200	45	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Pentachlorophenol	<810	F1	810	640	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Phenol	<200		200	89	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1
Pyrene	<40	* F1	40	7.9	ug/Kg	☼	03/17/16 07:00	03/25/16 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		35 - 137	03/17/16 07:00	03/25/16 01:09	1
2-Fluorobiphenyl	119		25 - 119	03/17/16 07:00	03/25/16 01:09	1
2-Fluorophenol	119	X	25 - 110	03/17/16 07:00	03/25/16 01:09	1
Nitrobenzene-d5	115		25 - 115	03/17/16 07:00	03/25/16 01:09	1
Phenol-d5	97		31 - 110	03/17/16 07:00	03/25/16 01:09	1
Terphenyl-d14	172	* X	36 - 134	03/17/16 07:00	03/25/16 01:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 22:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 22:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 22:49	1
<b>Manganese</b>	<b>0.080</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 22:49	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:49	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:29	03/24/16 22:49	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		03/23/16 14:51	03/25/16 02:33	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 02:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:10	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:33	1
<b>Iron</b>	<b>1.1</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 02:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:10	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 02:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-3(0-1)-031416**

**Lab Sample ID: 500-108762-1**

**Date Collected: 03/14/16 14:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 81.9**

**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		03/23/16 14:51	03/25/16 02:33	1
<b>Zinc</b>	<b>0.32</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 02:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Arsenic</b>	<b>4.8</b>	<b>F1</b>	0.57	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Barium</b>	<b>66</b>	<b>F1</b>	0.57	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Beryllium</b>	<b>0.82</b>	<b>F1</b>	0.23	0.050	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
Cadmium	<0.11	F1	0.11	0.033	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Calcium</b>	<b>1700</b>	<b>F1</b>	11	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Chromium</b>	<b>17</b>		0.57	0.099	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Copper</b>	<b>12</b>		0.57	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	11	4.4	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Magnesium</b>	<b>2200</b>		5.7	2.3	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Manganese</b>	<b>190</b>		0.57	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Nickel</b>	<b>19</b>		0.57	0.16	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Potassium</b>	<b>610</b>	<b>F1</b>	29	4.7	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
Selenium	<0.57	F1	0.57	0.28	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
Silver	<0.29	F1	0.29	0.067	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Sodium</b>	<b>1300</b>	<b>F1</b>	57	7.6	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Vanadium</b>	<b>26</b>		0.29	0.084	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	1
<b>Zinc</b>	<b>38</b>	<b>F1</b>	1.1	0.36	mg/Kg	☼	03/18/16 09:23	03/24/16 01:16	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		03/23/16 09:00	03/23/16 18:20	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		03/23/16 17:00	03/24/16 11:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>29</b>		18	9.4	ug/Kg	☼	03/21/16 15:30	03/22/16 23:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.52</b>		0.200	0.200	SU			03/17/16 14:49	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-4(0-1)-031416**

**Lab Sample ID: 500-108762-2**

**Date Collected: 03/14/16 14:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 11:28	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 11:28	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/16/16 11:28	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 11:28	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 11:28	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 11:28	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 11:28	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 11:28	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 11:28	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 11:28	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/16/16 11:28	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 11:28	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 11:28	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 11:28	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 11:28	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 11:28	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 11:28	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 11:28	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/16/16 11:28	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 11:28	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 11:28	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 11:28	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 11:28	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 11:28	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 11:28	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 11:28	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 11:28	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 11:28	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 11:28	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 11:28	1
Dibromofluoromethane	103		75 - 120		03/16/16 11:28	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 11:28	1
Toluene-d8 (Surr)	111		75 - 122		03/16/16 11:28	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-4(0-1)-031416**

**Lab Sample ID: 500-108762-2**

**Date Collected: 03/14/16 14:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**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	85	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Benzo[a]anthracene	<37 *		37	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Benzo[a]pyrene	<37 *		37	7.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Benzo[b]fluoranthene	<37 *		37	8.0	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Bis(2-ethylhexyl) phthalate	<190 *		190	68	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Butyl benzyl phthalate	<190 *		190	71	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Carbazole	<190		190	93	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-4(0-1)-031416**

**Lab Sample ID: 500-108762-2**

**Date Collected: 03/14/16 14:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**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	☼	03/17/16 07:00	03/25/16 01:38	1
Isophorone	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
<b>Phenanthrene</b>	<b>11</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
Phenol	<190		190	82	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1
<b>Pyrene</b>	<b>12</b>	<b>J *</b>	37	7.4	ug/Kg	☼	03/17/16 07:00	03/25/16 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137	03/17/16 07:00	03/25/16 01:38	1
2-Fluorobiphenyl	89		25 - 119	03/17/16 07:00	03/25/16 01:38	1
2-Fluorophenol	90		25 - 110	03/17/16 07:00	03/25/16 01:38	1
Nitrobenzene-d5	90		25 - 115	03/17/16 07:00	03/25/16 01:38	1
Phenol-d5	80		31 - 110	03/17/16 07:00	03/25/16 01:38	1
Terphenyl-d14	142	X *	36 - 134	03/17/16 07:00	03/25/16 01:38	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 22:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 22:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
<b>Cobalt</b>	<b>0.042</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 22:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 22:54	1
<b>Manganese</b>	<b>6.6</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 22:54	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:54	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:29	03/24/16 22:54	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.082</b>		0.050	0.010	mg/L		03/23/16 14:51	03/25/16 02:37	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:14	1
<b>Beryllium</b>	<b>0.0060</b>		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 02:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:14	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:37	1
<b>Cobalt</b>	<b>0.070</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:14	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:37	1
<b>Iron</b>	<b>230</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 02:37	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:14	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:37	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 02:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-4(0-1)-031416**

**Lab Sample ID: 500-108762-2**

**Date Collected: 03/14/16 14:05**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 89.2**

**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		03/23/16 14:51	03/25/16 02:37	1
<b>Zinc</b>	<b>0.45</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 02:37	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	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Arsenic</b>	<b>4.2</b>		0.56	0.26	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Barium</b>	<b>35</b>		0.56	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Beryllium</b>	<b>0.29</b>		0.22	0.048	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Calcium</b>	<b>1700</b>		11	3.6	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Chromium</b>	<b>9.4</b>		0.56	0.096	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Cobalt</b>	<b>6.5</b>		0.28	0.063	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Copper</b>	<b>9.6</b>		0.56	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Iron</b>	<b>12000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Lead</b>	<b>9.0</b>		0.28	0.14	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Magnesium</b>	<b>1400</b>		5.6	2.3	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Manganese</b>	<b>190</b>		0.56	0.11	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Nickel</b>	<b>9.1</b>		0.56	0.15	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Potassium</b>	<b>350</b>		28	4.5	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Selenium</b>	<b>0.34</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Sodium</b>	<b>790</b>		56	7.4	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Vanadium</b>	<b>21</b>		0.28	0.081	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	1
<b>Zinc</b>	<b>19</b>		1.1	0.35	mg/Kg	☼	03/18/16 09:23	03/24/16 01:40	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		03/23/16 09:00	03/23/16 18:21	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		03/23/16 17:00	03/24/16 11:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	18	9.2	ug/Kg	☼	03/21/16 15:30	03/23/16 00:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.70</b>		0.200	0.200	SU			03/17/16 14:54	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-5(0-1)-031416**

**Lab Sample ID: 500-108762-3**

**Date Collected: 03/14/16 14:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/16/16 11:53	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 11:53	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/16/16 11:53	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 11:53	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 11:53	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 11:53	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/16/16 11:53	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 11:53	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/16/16 11:53	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/16/16 11:53	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 11:53	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 11:53	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 11:53	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 11:53	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/16/16 11:53	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/16/16 11:53	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 11:53	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/16/16 11:53	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 11:53	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 11:53	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 11:53	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 11:53	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 11:53	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 11:53	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 11:53	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/16/16 11:53	1
Dibromofluoromethane	101		75 - 120		03/16/16 11:53	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/16/16 11:53	1
Toluene-d8 (Surr)	112		75 - 122		03/16/16 11:53	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	☼	03/17/16 07:00	03/25/16 02:06	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-5(0-1)-031416**

**Lab Sample ID: 500-108762-3**

**Date Collected: 03/14/16 14:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Benzo[a]anthracene	<38 *		38	5.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Benzo[a]pyrene	<38 *		38	7.4	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Benzo[b]fluoranthene	<38 *		38	8.2	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Bis(2-ethylhexyl) phthalate	<190 *		190	70	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Butyl benzyl phthalate	<190 *		190	72	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Carbazole	<190		190	95	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Chrysene	<38 *		38	10	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-5(0-1)-031416**

**Lab Sample ID: 500-108762-3**

**Date Collected: 03/14/16 14:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Phenol	<190		190	85	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Pyrene	<38	*	38	7.6	ug/Kg	☼	03/17/16 07:00	03/25/16 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137				03/17/16 07:00	03/25/16 02:06	1
2-Fluorobiphenyl	101		25 - 119				03/17/16 07:00	03/25/16 02:06	1
2-Fluorophenol	106		25 - 110				03/17/16 07:00	03/25/16 02:06	1
Nitrobenzene-d5	99		25 - 115				03/17/16 07:00	03/25/16 02:06	1
Phenol-d5	93		31 - 110				03/17/16 07:00	03/25/16 02:06	1
Terphenyl-d14	157	X *	36 - 134				03/17/16 07:00	03/25/16 02:06	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:29	03/24/16 22:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:29	03/24/16 22:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:29	03/24/16 22:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:29	03/24/16 22:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:29	03/24/16 22:59	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:29	03/24/16 22:59	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:29	03/24/16 22:59	1
<b>Zinc</b>	<b>0.044</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:29	03/24/16 22:59	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.036</b>	<b>J</b>	0.050	0.010	mg/L		03/23/16 14:51	03/25/16 02:42	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:51	03/25/16 20:19	1
<b>Beryllium</b>	<b>0.0040</b>		0.0040	0.0040	mg/L		03/23/16 14:51	03/25/16 02:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:51	03/25/16 20:19	1
<b>Chromium</b>	<b>0.090</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:42	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:51	03/25/16 20:19	1
<b>Copper</b>	<b>0.082</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:42	1
<b>Iron</b>	<b>110</b>		0.40	0.20	mg/L		03/23/16 14:51	03/25/16 02:42	1
<b>Lead</b>	<b>0.054</b>		0.0075	0.0075	mg/L		03/23/16 14:51	03/25/16 20:19	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:42	1
<b>Nickel</b>	<b>0.081</b>		0.025	0.010	mg/L		03/23/16 14:51	03/25/16 02:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:51	03/25/16 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

**Client Sample ID: R45-5(0-1)-031416**

**Lab Sample ID: 500-108762-3**

**Date Collected: 03/14/16 14:20**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 84.7**

**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		03/23/16 14:51	03/25/16 02:42	1
<b>Zinc</b>	<b>0.34</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:51	03/25/16 02:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Arsenic</b>	<b>3.3</b>		0.48	0.22	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Barium</b>	<b>24</b>		0.48	0.087	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Beryllium</b>	<b>0.21</b>		0.19	0.041	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Cadmium</b>	<b>0.064</b>	<b>J</b>	0.095	0.028	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Calcium</b>	<b>5200</b>		9.5	3.1	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Chromium</b>	<b>6.2</b>		0.48	0.082	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Cobalt</b>	<b>4.6</b>		0.24	0.054	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Copper</b>	<b>6.3</b>		0.48	0.10	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Iron</b>	<b>9400</b>	<b>B</b>	9.5	3.7	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Lead</b>	<b>5.0</b>		0.24	0.12	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Magnesium</b>	<b>3500</b>		4.8	1.9	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Manganese</b>	<b>300</b>		0.48	0.094	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Nickel</b>	<b>10</b>		0.48	0.13	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Potassium</b>	<b>400</b>		24	3.9	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Sodium</b>	<b>120</b>		48	6.3	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Vanadium</b>	<b>11</b>		0.24	0.070	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	1
<b>Zinc</b>	<b>21</b>		0.95	0.30	mg/Kg	☼	03/18/16 09:23	03/24/16 01:45	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		03/23/16 09:00	03/23/16 18:27	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		03/23/16 17:00	03/24/16 11:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>9.9</b>	<b>J</b>	17	8.9	ug/Kg	☼	03/21/16 15:30	03/23/16 00:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.91</b>		0.200	0.200	SU			03/17/16 15:00	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108762-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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 6041  
Phone: 708.534.5200 Fax: 708.534.5



500-108762 COC

Report To (optional)  
Contact: S. Babusalkumar  
Company: Weston  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: Sam  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108762

Chain of Custody Number: \_\_\_\_\_

Page 3 of 4

Temperature °C of Cooler: 2.3 2.8 3.0 3.5 3/15/16

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		# of Containers		Matrix													
<u>IDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Branch of West Park / IL</u>		<u>D. Wright</u>																	
Sampler		Sampling																	
<u>T. Walls</u>		Date		Time															
<u>1</u>		<u>R45-3(0-1)-031416</u>	<u>3-14-16</u>	<u>1400</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>		<u>R45-4(0-1)-031416</u>		<u>1405</u>															
<u>3</u>		<u>R45-5(0-1)-031416</u>		<u>1420</u>															
<u>4</u>		<u>R43-4(0-1)-031416</u>		<u>1425</u>															
<u>5</u>		<u>R43-5(0-1)-031416</u>		<u>1435</u>															
<u>6</u>		<u>R43-6(0-1)-031416</u>		<u>1445</u>															
<u>7</u>		<u>R43-7(0-1)-031416</u>		<u>1455</u>															
<u>8</u>		<u>R39-2(0-1)-031416</u>		<u>1510</u>															
<u>9</u>		<u>R39-3(0-1)-031416</u>		<u>1525</u>															
<u>10</u>		<u>R39-3(0-1)-031416D</u>	<u>3-14-16</u>	<u>1525</u>	<u>2</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Standard Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1725</u>	Received By <u>Shirley Galt</u>	Company <u>TA-CRT</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21907-21961 W. IL 113, (ISGS Site No. 2948-46)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.252973100 Longitude: -88.138435481

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113Latitude: 41.252973100 Longitude: -88.138435481Uncontaminated 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 R46-1 THROUGH R46-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-46. SEE FIGURES 3-7/3-8 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: 500-108492-1.  
ALSO SEE FIGURES 4-7 AND 4-8 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 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

5 May 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-46**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R46-1(0-1)-030816	R46-2(0-1)-030816	R46-3(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	R46-1	R46-2	R46-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-46	2948-46	2948-46	
<b>Parameter</b>				
Laboratory pH	8.79	7.38	8.57	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>			
<b>SVOCs (ug/kg)</b>				
Benzo(a)anthracene	8.8 J	35 J	8.2 J	900 / 1100 / 1800
Benzo(a)pyrene	15 J	55 J	13 J	90 / 1300 / 2100
Benzo(b)fluoranthene	23 J	110 J	20 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	28 J	ND	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	2.6 J	1.8 J	1.9 J	11.3 / 13
Barium, Total	27	13	14	1500
Beryllium, Total	0.19	0.16 J	0.14 J	22
Cadmium, Total	0.067 J	0.062 J	0.058 J	5.2
Calcium, Total	15000 J	6600 J	6300 J	---
Chromium, Total	7 J	7.5 J	5.8 J	21
Iron, Total	6800 J+	5800 J+	5100 J+	15000 / 15900
Lead, Total	8.9 J	15 J	8.3 J	107
Manganese, Total	190 J	78 J	120 J	630 / 636
Mercury, Total	0.015 J	0.011 J	0.01 J	0.89
Nickel, Total	4.9 J+	4.5 J+	5 J+	100
Potassium, Total	340 J	240 J	310 J	---
Selenium, Total	0.32 J	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	17	17	14	5100
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.24 J	0.17 J	0.2 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.72	0.63	0.65	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.2 J	ND	ND	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.011 J	ND	0.01 J	0.05
Barium, SPLP	0.21 J	0.055 J	0.12 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.042	0.016 J	0.034	0.1
Iron, SPLP	44 J-	14 J-	32 J-	5
Lead, SPLP	0.046	0.037	0.047	0.0075
Manganese, SPLP	0.85	0.11	0.43	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.029	0.011 J	0.028	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.14 J	0.16 J	0.11 J	5

**Summary Table of ISGS Site No. 2948-46**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-1(0-1)-030816**

**Lab Sample ID: 500-108492-3**

**Date Collected: 03/08/16 09:17**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 04:16	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/10/16 04:16	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 04:16	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 04:16	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 04:16	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 04:16	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 04:16	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 04:16	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 04:16	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 04:16	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 04:16	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 04:16	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 04:16	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 04:16	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 04:16	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 04:16	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 04:16	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 04:16	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 04:16	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 04:16	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 04:16	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 04:16	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 04:16	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 04:16	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 04:16	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 04:16	1
Dibromofluoromethane	110		75 - 120		03/10/16 04:16	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/10/16 04:16	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 04:16	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	☼	03/10/16 07:16	03/12/16 13:14	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-1(0-1)-030816**

**Lab Sample ID: 500-108492-3**

**Date Collected: 03/08/16 09:17**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Acenaphthylene</b>	<b>12 J</b>		37	4.9	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Benzo[a]anthracene</b>	<b>8.8 J</b>		37	5.0	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Benzo[a]pyrene</b>	<b>15 J*</b>		37	7.2	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Benzo[b]fluoranthene</b>	<b>23 J*</b>		37	8.0	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Chrysene</b>	<b>10 J</b>		37	10	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Fluoranthene</b>	<b>16 J</b>		37	6.9	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-1(0-1)-030816**

**Lab Sample ID: 500-108492-3**

**Date Collected: 03/08/16 09:17**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Phenanthrene</b>	<b>14</b>	<b>J</b>	37	5.2	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
<b>Pyrene</b>	<b>20</b>	<b>J</b>	37	7.4	ug/Kg	☼	03/10/16 07:16	03/12/16 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32	X	35 - 137				03/10/16 07:16	03/12/16 13:14	1
2-Fluorobiphenyl	81		25 - 119				03/10/16 07:16	03/12/16 13:14	1
2-Fluorophenol	99		25 - 110				03/10/16 07:16	03/12/16 13:14	1
Nitrobenzene-d5	72		25 - 115				03/10/16 07:16	03/12/16 13:14	1
Phenol-d5	84		31 - 110				03/10/16 07:16	03/12/16 13:14	1
Terphenyl-d14	97		36 - 134				03/10/16 07:16	03/12/16 13:14	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:07	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:07	1
<b>Manganese</b>	<b>0.72</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:07	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:07	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:07	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		03/13/16 15:00	03/14/16 19:46	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 19:46	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Chromium</b>	<b>0.042</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Iron</b>	<b>44</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Lead</b>	<b>0.046</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Manganese</b>	<b>0.85</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:46	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 19:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-1(0-1)-030816**

**Lab Sample ID: 500-108492-3**

**Date Collected: 03/08/16 09:17**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.6**

**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		03/13/16 15:00	03/14/16 19:46	1
<b>Zinc</b>	<b>0.14</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 19:46	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.87		0.87	0.18	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Arsenic</b>	<b>2.6</b>		0.43	0.20	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Barium</b>	<b>27</b>		0.43	0.079	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Beryllium</b>	<b>0.19</b>		0.17	0.038	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Cadmium</b>	<b>0.067</b>	<b>J</b>	0.087	0.025	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	8.7	2.8	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Chromium</b>	<b>7.0</b>	<b>B</b>	2.2	0.075	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Cobalt</b>	<b>2.4</b>		0.22	0.049	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Copper</b>	<b>3.7</b>		0.43	0.094	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Iron</b>	<b>6800</b>	<b>B</b>	8.7	3.3	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Lead</b>	<b>8.9</b>		0.22	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Magnesium</b>	<b>10000</b>	<b>B</b>	4.3	1.8	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Manganese</b>	<b>190</b>		0.43	0.086	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Nickel</b>	<b>4.9</b>	<b>B</b>	0.43	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Potassium</b>	<b>340</b>		22	3.5	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Selenium</b>	<b>0.32</b>	<b>J</b>	0.43	0.21	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
Silver	<0.22		0.22	0.051	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Sodium</b>	<b>410</b>		43	5.7	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Vanadium</b>	<b>11</b>		0.22	0.063	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	1
<b>Zinc</b>	<b>17</b>		0.87	0.27	mg/Kg	☼	03/14/16 09:24	03/14/16 19:00	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		03/13/16 18:00	03/15/16 13:10	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		03/13/16 18:00	03/15/16 14:06	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>15</b>	<b>J</b>	18	9.6	ug/Kg	☼	03/15/16 16:45	03/16/16 17:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.79</b>		0.200	0.200	SU			03/10/16 13:34	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-2(0-1)-030816**

**Lab Sample ID: 500-108492-4**

**Date Collected: 03/08/16 09:38**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 85.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/10/16 04:42	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/10/16 04:42	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/10/16 04:42	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/10/16 04:42	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/10/16 04:42	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/10/16 04:42	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/10/16 04:42	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/10/16 04:42	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/10/16 04:42	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/10/16 04:42	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/10/16 04:42	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/10/16 04:42	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/10/16 04:42	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/10/16 04:42	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/10/16 04:42	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/10/16 04:42	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/10/16 04:42	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/10/16 04:42	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/10/16 04:42	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/10/16 04:42	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/10/16 04:42	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/10/16 04:42	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/10/16 04:42	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/10/16 04:42	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/10/16 04:42	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/10/16 04:42	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/10/16 04:42	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/10/16 04:42	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/10/16 04:42	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/10/16 04:42	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/10/16 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/10/16 04:42	1
Dibromofluoromethane	110		75 - 120		03/10/16 04:42	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/10/16 04:42	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 04:42	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-2(0-1)-030816**

**Lab Sample ID: 500-108492-4**

**Date Collected: 03/08/16 09:38**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 85.2**

**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	☼	03/10/16 07:16	03/15/16 01:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>2-Methylnaphthalene</b>	<b>10</b>	<b>J</b>	37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Acenaphthylene</b>	<b>11</b>	<b>J</b>	37	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Anthracene</b>	<b>7.9</b>	<b>J</b>	37	6.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Benzo[a]anthracene</b>	<b>35</b>	<b>J</b>	37	5.0	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Benzo[a]pyrene</b>	<b>55</b>	<b>*</b>	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>	<b>*</b>	37	8.0	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Benzo[g,h,i]perylene</b>	<b>31</b>	<b>J *</b>	37	12	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Benzo[k]fluoranthene</b>	<b>44</b>	<b>*</b>	37	11	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Chrysene</b>	<b>53</b>		37	10	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Dibenz(a,h)anthracene	<37	<b>*</b>	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Fluoranthene</b>	<b>88</b>		37	6.9	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-2(0-1)-030816**

**Lab Sample ID: 500-108492-4**

**Date Collected: 03/08/16 09:38**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 85.2**

**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>28</b>	<b>J*</b>	37	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Phenanthrene</b>	<b>54</b>		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	1
<b>Pyrene</b>	<b>90</b>		37	7.4	ug/Kg	☼	03/10/16 07:16	03/15/16 01:47	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	71		35 - 137				03/10/16 07:16	03/15/16 01:47	1
2-Fluorobiphenyl	90		25 - 119				03/10/16 07:16	03/15/16 01:47	1
2-Fluorophenol	106		25 - 110				03/10/16 07:16	03/15/16 01:47	1
Nitrobenzene-d5	87		25 - 115				03/10/16 07:16	03/15/16 01:47	1
Phenol-d5	100		31 - 110				03/10/16 07:16	03/15/16 01:47	1
Terphenyl-d14	123		36 - 134				03/10/16 07:16	03/15/16 01:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:13	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:13	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:13	1
<b>Zinc</b>	<b>0.059</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Barium</b>	<b>0.055</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 19:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 19:53	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Chromium</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Iron</b>	<b>14</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Lead</b>	<b>0.037</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 19:53	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-2(0-1)-030816**

**Lab Sample ID: 500-108492-4**

**Date Collected: 03/08/16 09:38**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 85.2**

**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		03/13/16 15:00	03/14/16 19:53	1
<b>Zinc</b>	<b>0.16</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 19:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Arsenic</b>	<b>1.8</b>		0.50	0.23	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Barium</b>	<b>13</b>		0.50	0.091	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.20	0.043	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Cadmium</b>	<b>0.062</b>	<b>J</b>	0.10	0.029	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Calcium</b>	<b>6600</b>	<b>B</b>	10	3.2	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Chromium</b>	<b>7.5</b>	<b>B</b>	2.5	0.086	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Cobalt</b>	<b>2.0</b>		0.25	0.056	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Copper</b>	<b>3.0</b>		0.50	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Iron</b>	<b>5800</b>	<b>B</b>	10	3.8	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Lead</b>	<b>15</b>		0.25	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Magnesium</b>	<b>4000</b>	<b>B</b>	5.0	2.0	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Manganese</b>	<b>78</b>		0.50	0.099	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Nickel</b>	<b>4.5</b>	<b>B</b>	0.50	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Potassium</b>	<b>240</b>		25	4.1	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Sodium</b>	<b>190</b>		50	6.6	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Vanadium</b>	<b>12</b>		0.25	0.073	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1
<b>Zinc</b>	<b>17</b>		1.0	0.32	mg/Kg	☼	03/14/16 09:24	03/14/16 19:05	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 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		03/13/16 18:00	03/15/16 14:08	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>11</b>	<b>J</b>	18	9.4	ug/Kg	☼	03/15/16 16:45	03/16/16 17:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.38</b>		0.200	0.200	SU			03/10/16 13:37	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-3(0-1)-030816**

**Lab Sample ID: 500-108492-5**

**Date Collected: 03/08/16 09:47**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 88.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 05:08	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/10/16 05:08	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 05:08	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 05:08	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 05:08	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 05:08	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:08	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/10/16 05:08	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/10/16 05:08	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 05:08	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 05:08	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 05:08	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:08	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 05:08	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 05:08	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 05:08	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/10/16 05:08	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:08	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 05:08	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:08	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 05:08	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:08	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 05:08	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 05:08	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:08	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/10/16 05:08	1
Dibromofluoromethane	109		75 - 120		03/10/16 05:08	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/10/16 05:08	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 05:08	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-3(0-1)-030816**

**Lab Sample ID: 500-108492-5**

**Date Collected: 03/08/16 09:47**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 88.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Acenaphthylene</b>	<b>12 J</b>		37	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Benzo[a]anthracene</b>	<b>8.2 J</b>		37	5.0	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Benzo[a]pyrene</b>	<b>13 J*</b>		37	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Benzo[b]fluoranthene</b>	<b>20 J*</b>		37	8.0	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Benzo[g,h,i]perylene</b>	<b>13 J*</b>		37	12	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Chrysene</b>	<b>10 J</b>		37	10	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Fluoranthene</b>	<b>12 J</b>		37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-3(0-1)-030816**

**Lab Sample ID: 500-108492-5**

**Date Collected: 03/08/16 09:47**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 88.0**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Phenanthrene</b>	<b>14</b>	<b>J</b>	37	5.1	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
<b>Pyrene</b>	<b>17</b>	<b>J</b>	37	7.3	ug/Kg	☼	03/10/16 07:16	03/15/16 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137				03/10/16 07:16	03/15/16 02:16	1
2-Fluorobiphenyl	87		25 - 119				03/10/16 07:16	03/15/16 02:16	1
2-Fluorophenol	98		25 - 110				03/10/16 07:16	03/15/16 02:16	1
Nitrobenzene-d5	82		25 - 115				03/10/16 07:16	03/15/16 02:16	1
Phenol-d5	70		31 - 110				03/10/16 07:16	03/15/16 02:16	1
Terphenyl-d14	118		36 - 134				03/10/16 07:16	03/15/16 02:16	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:20	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:20	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:20	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:20	1
<b>Zinc</b>	<b>0.078</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:20	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 19:59	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Chromium</b>	<b>0.034</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Copper</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Iron</b>	<b>32</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Lead</b>	<b>0.047</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Manganese</b>	<b>0.43</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 19:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R46-3(0-1)-030816**

**Lab Sample ID: 500-108492-5**

**Date Collected: 03/08/16 09:47**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 88.0**

**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		03/13/16 15:00	03/14/16 19:59	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 19:59	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	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Arsenic</b>	<b>1.9</b>		0.53	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Barium</b>	<b>14</b>		0.53	0.097	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Beryllium</b>	<b>0.14</b>	<b>J</b>	0.21	0.046	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Cadmium</b>	<b>0.058</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Calcium</b>	<b>6300</b>	<b>B</b>	11	3.4	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Chromium</b>	<b>5.8</b>	<b>B</b>	2.7	0.091	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Cobalt</b>	<b>2.8</b>		0.27	0.060	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Copper</b>	<b>3.4</b>		0.53	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Iron</b>	<b>5100</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Lead</b>	<b>8.3</b>		0.27	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Magnesium</b>	<b>3900</b>	<b>B</b>	5.3	2.2	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Manganese</b>	<b>120</b>		0.53	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Nickel</b>	<b>5.0</b>	<b>B</b>	0.53	0.14	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Potassium</b>	<b>310</b>		27	4.3	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Sodium</b>	<b>210</b>		53	7.0	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Vanadium</b>	<b>9.4</b>		0.27	0.078	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	1
<b>Zinc</b>	<b>14</b>		1.1	0.34	mg/Kg	☼	03/14/16 09:24	03/14/16 19:17	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		03/13/16 18:00	03/15/16 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		03/13/16 18:00	03/15/16 14:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>10</b>	<b>J</b>	19	9.8	ug/Kg	☼	03/15/16 16:45	03/16/16 17:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.57</b>		0.200	0.200	SU			03/10/16 13:39	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534



500-108492 COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of \_\_\_\_\_  
Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter					Preservative Key		
<u>Weston Solutions</u>		<u>02056 014-040-0030</u>		<u>7 7 7 7 7</u>								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Lab Project #		Sampler					Comments		
<u>IDOT 040-IL Route 113</u>		<u>Bradwood, IL</u>				<u>M. Doherty Skubic</u> <u>D. Wright</u>							
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix						
		Date	Time										
<u>1</u>		<u>AL44-2(0-1)-030816</u>	<u>3-8-16</u>	<u>0850</u>	<u>2</u>	<u>S</u>		<u>VOCs</u>	<u>SVOCs</u>	<u>Total Metals</u>	<u>TOU/SPU Metals</u>	<u>pH</u>	
<u>2</u>		<u>AL44-3(0-1)-030816</u>		<u>0910</u>									
<u>3</u>		<u>R46-1(0-1)-030816</u>		<u>0917</u>									
<u>4</u>		<u>R46-2(0-1)-030816</u>		<u>0938</u>									
<u>5</u>		<u>R46-3(0-1)-030816</u>		<u>0947</u>									
<u>6</u>		<u>R47-1(0-1)-030816</u>		<u>1000</u>									
<u>7</u>		<u>AB49-1(0-1)-030816</u>		<u>1010</u>									
<u>8</u>		<u>WLS1-1(0-1)-030816</u>		<u>1020</u>									
<u>9</u>		<u>F53-1(0-1)-030816</u>		<u>1035</u>									
<u>10</u>		<u>F53-2(0-1)-030816</u>	<u>3-8-16</u>	<u>1045</u>	<u>2</u>	<u>S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Pls Contact 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>omj. jolly, ill</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>NO</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

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2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: S. Bahns-Kumar  
 Company: Weston Solutions Inc  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

Bill To (optional)  
 Contact: SAME  
 Company:  
 Address:  
 Address:  
 Phone:  
 Fax:  
 PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
 Chain of Custody Number:  
 Page 2 of  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Date		Time		# of Containers				
Weston Solutions		02056.014.040.0230		7	7	7	7	7		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
1 DOT 040-IL Rte 113												
Braidwood, IL												
M. Doherty-Skibic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals		TOXIC Metals	PH
11		F53-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X		X	X
12		WLS7-1(0-1)-030816		1105								
13		WLS7-2(0-1)-030816		1117								
14		WLS7-3(0-1)-030816		1127								
15		WLS7-4(0-1)-030816		1139								
16		R63-1(0-1)-030816		1220								
17		R66-1(0-1)-030816		1237								
18		R66-2(0-1)-030816		1250								
19		AL67-1(0-1)-030816		1317								
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X		X	X

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Recontact 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>M. Doherty-Skibic</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1520</u>	Lab Courier <u>[Signature]</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21905 W. IL 113, (ISGS Site No. 2948-47)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.251067657 Longitude: -88.137719452  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.251067657 Longitude: -88.137719452

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 R47-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-47. SEE FIGURE 3-8 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: 500-108492-1.  
ALSO SEE FIGURE 4-8 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

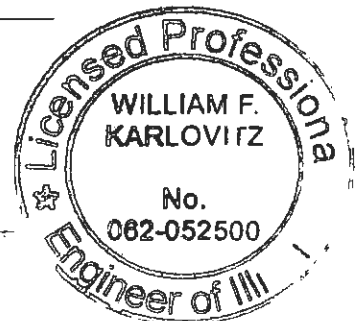
William F. Karlovitz, P.E.

Printed Name:

5 May 2016

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-47**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R47-1(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	
Location ID	R47-1	
Depth	0 - 1	
Location Code	2948-47	
<b>Parameter</b>		
Laboratory pH	8.43	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)pyrene	190 J	90 / 1300 / 2100
Benzo(b)fluoranthene	220 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	86 J	900 / 900 / 1600
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	4 J	11.3 / 13
Barium, Total	14	1500
Beryllium, Total	0.23	22
Cadmium, Total	0.078 J	5.2
Calcium, Total	130000 J	---
Chromium, Total	ND	21
Iron, Total	8200 J+	15000 / 15900
Lead, Total	14 J	107
Manganese, Total	300 J	630 / 636
Mercury, Total	0.04	0.89
Nickel, Total	9.1 J+	100
Potassium, Total	670 J	---
Selenium, Total	0.27 J	1.3
Silver, Total	ND	4.4
Zinc, Total	28	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.22 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.11	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.022 J	0.05
Barium, SPLP	0.089 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.033	0.1
Iron, SPLP	50 J-	5
Lead, SPLP	0.038	0.0075
Manganese, SPLP	0.27	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.045	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.32 J	5

**Summary Table of ISGS Site No. 2948-47**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R47-1(0-1)-030816**

**Lab Sample ID: 500-108492-6**

**Date Collected: 03/08/16 10:00**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 91.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/10/16 05:34	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 05:34	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/10/16 05:34	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:34	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:34	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 05:34	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 05:34	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 05:34	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 05:34	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/10/16 05:34	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:34	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:34	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 05:34	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:34	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 05:34	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/10/16 05:34	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:34	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/10/16 05:34	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 05:34	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:34	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 05:34	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:34	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 05:34	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:34	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		03/10/16 05:34	1
Dibromofluoromethane	109		75 - 120		03/10/16 05:34	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/10/16 05:34	1
Toluene-d8 (Surr)	106		75 - 122		03/10/16 05:34	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<900		900	190	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
1,2-Dichlorobenzene	<900		900	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
1,3-Dichlorobenzene	<900		900	200	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
1,4-Dichlorobenzene	<900		900	230	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,2'-oxybis[1-chloropropane]	<900		900	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R47-1(0-1)-030816**

**Lab Sample ID: 500-108492-6**

**Date Collected: 03/08/16 10:00**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 91.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1800		1800	410	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,4,6-Trichlorophenol	<1800		1800	620	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,4-Dichlorophenol	<1800		1800	430	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,4-Dimethylphenol	<1800		1800	680	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,4-Dinitrophenol	<3600		3600	3200	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,4-Dinitrotoluene	<900		900	290	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2,6-Dinitrotoluene	<900		900	350	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Chloronaphthalene	<900		900	200	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Chlorophenol	<900		900	310	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Methylnaphthalene	<180		180	33	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Methylphenol	<900		900	290	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Nitroaniline	<900		900	240	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
2-Nitrophenol	<1800		1800	420	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
3 & 4 Methylphenol	<900		900	300	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
3,3'-Dichlorobenzidine	<900		900	250	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
3-Nitroaniline	<1800		1800	560	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4,6-Dinitro-2-methylphenol	<3600		3600	1400	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Bromophenyl phenyl ether	<900		900	240	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Chloro-3-methylphenol	<1800		1800	610	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Chloroaniline	<3600		3600	840	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Chlorophenyl phenyl ether	<900		900	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Nitroaniline	<1800		1800	750	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
4-Nitrophenol	<3600		3600	1700	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Acenaphthene	<180		180	32	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Acenaphthylene</b>	<b>66</b>	<b>J</b>	180	24	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Anthracene	<180		180	30	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Benzo[a]anthracene	<180		180	24	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Benzo[a]pyrene</b>	<b>190</b>	<b>*</b>	180	35	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Benzo[b]fluoranthene</b>	<b>220</b>	<b>*</b>	180	39	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Benzo[g,h,i]perylene</b>	<b>210</b>	<b>*</b>	180	58	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Benzo[k]fluoranthene</b>	<b>71</b>	<b>J *</b>	180	53	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Bis(2-chloroethoxy)methane	<900		900	180	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Bis(2-chloroethyl)ether	<900		900	270	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Bis(2-ethylhexyl) phthalate	<900		900	330	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Butyl benzyl phthalate	<900		900	340	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Carbazole	<900		900	450	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Chrysene	<180		180	49	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Dibenz(a,h)anthracene	<180	<b>*</b>	180	35	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Dibenzofuran	<900		900	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Diethyl phthalate	<900		900	300	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Dimethyl phthalate	<900		900	230	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Di-n-butyl phthalate	<900		900	270	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Di-n-octyl phthalate	<900		900	290	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Fluoranthene</b>	<b>58</b>	<b>J</b>	180	33	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Fluorene	<180		180	25	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Hexachlorobenzene	<360		360	42	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Hexachlorobutadiene	<900		900	280	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Hexachlorocyclopentadiene	<3600		3600	1000	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Hexachloroethane	<900		900	270	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R47-1(0-1)-030816**

**Lab Sample ID: 500-108492-6**

**Date Collected: 03/08/16 10:00**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 91.2**

## 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>86</b>	<b>J *</b>	180	46	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Isophorone	<900		900	200	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Naphthalene	<180		180	28	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Nitrobenzene	<180		180	45	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
N-Nitrosodi-n-propylamine	<360		360	220	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
N-Nitrosodiphenylamine	<900		900	210	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Pentachlorophenol	<3600		3600	2900	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Phenanthrene</b>	<b>91</b>	<b>J</b>	180	25	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Phenol	<900		900	400	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
<b>Pyrene</b>	<b>500</b>		180	36	ug/Kg	☼	03/10/16 07:16	03/15/16 02:45	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		35 - 137				03/10/16 07:16	03/15/16 02:45	5
2-Fluorobiphenyl	104		25 - 119				03/10/16 07:16	03/15/16 02:45	5
2-Fluorophenol	90		25 - 110				03/10/16 07:16	03/15/16 02:45	5
Nitrobenzene-d5	90		25 - 115				03/10/16 07:16	03/15/16 02:45	5
Phenol-d5	50		31 - 110				03/10/16 07:16	03/15/16 02:45	5
Terphenyl-d14	170	X	36 - 134				03/10/16 07:16	03/15/16 02:45	5

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:43	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:43	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:43	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:43	1
<b>Zinc</b>	<b>0.043</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:43	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	<b>J</b>	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Barium</b>	<b>0.089</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 20:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 20:06	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Chromium</b>	<b>0.033</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Copper</b>	<b>0.047</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Iron</b>	<b>50</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Lead</b>	<b>0.038</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 20:06	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: R47-1(0-1)-030816**

**Lab Sample ID: 500-108492-6**

**Date Collected: 03/08/16 10:00**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 91.2**

**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		03/13/16 15:00	03/14/16 20:06	1
<b>Zinc</b>	<b>0.32</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 20:06	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Arsenic</b>	<b>4.0</b>		0.48	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Barium</b>	<b>14</b>		0.48	0.088	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Beryllium</b>	<b>0.23</b>		0.19	0.042	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Cadmium</b>	<b>0.078</b>	<b>J</b>	0.096	0.028	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Calcium</b>	<b>130000</b>	<b>B</b>	96	31	mg/Kg	☼	03/14/16 09:24	03/16/16 06:42	10
<b>Chromium</b>	<b>4.9</b>	<b>B</b>	2.4	0.083	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Cobalt</b>	<b>3.8</b>		0.24	0.054	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Copper</b>	<b>6.7</b>		0.48	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Iron</b>	<b>8200</b>	<b>B</b>	9.6	3.7	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Lead</b>	<b>14</b>		0.24	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Magnesium</b>	<b>48000</b>	<b>B</b>	4.8	2.0	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Manganese</b>	<b>300</b>		0.48	0.095	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Nickel</b>	<b>9.1</b>	<b>B</b>	0.48	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Potassium</b>	<b>670</b>		24	3.9	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Selenium</b>	<b>0.27</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Sodium</b>	<b>220</b>		48	6.4	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Vanadium</b>	<b>8.2</b>		0.24	0.070	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1
<b>Zinc</b>	<b>28</b>		0.96	0.31	mg/Kg	☼	03/14/16 09:24	03/14/16 19:21	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 13:15	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 14:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>40</b>		17	9.2	ug/Kg	☼	03/15/16 16:45	03/16/16 17:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.43</b>		0.200	0.200	SU			03/10/16 13:42	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534



500-108492 COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of \_\_\_\_\_  
Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter					Preservative Key		
<u>Weston Solutions</u>		<u>02056 014-040-0030</u>		<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Lab Project #		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TOC/SP/ Metals		pH
<u>IDOT 040-IL Route 113</u>		<u>Bradwood, IL</u>											
Sampler		Lab PM		Sampling		Date	Time						
<u>M. Doherty Skubic</u>		<u>D. Wright</u>											
Lab ID	MS/MSD	Sample ID											
<u>1</u>		<u>AL44-2(0-1)-030816</u>		<u>3-8-16</u>	<u>0850</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>AL44-3(0-1)-030816</u>			<u>0910</u>								
<u>3</u>		<u>R46-1(0-1)-030816</u>			<u>0917</u>								
<u>4</u>		<u>R46-2(0-1)-030816</u>			<u>0938</u>								
<u>5</u>		<u>R46-3(0-1)-030816</u>			<u>0947</u>								
<u>6</u>		<u>R47-1(0-1)-030816</u>			<u>1000</u>								
<u>7</u>		<u>AB49-1(0-1)-030816</u>			<u>1010</u>								
<u>8</u>		<u>WLS1-1(0-1)-030816</u>			<u>1020</u>								
<u>9</u>		<u>F53-1(0-1)-030816</u>			<u>1035</u>								
<u>10</u>		<u>F53-2(0-1)-030816</u>		<u>3-8-16</u>	<u>1045</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Pls Contact 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>omj</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>NO</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: S. Bahns-Kumar  
 Company: Weston Solutions Inc  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

Bill To (optional)  
 Contact: SAME  
 Company:  
 Address:  
 Address:  
 Phone:  
 Fax:  
 PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
 Chain of Custody Number:  
 Page 2 of  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Date		Time		# of Containers				
Project Location/State		Lab PM		Date		Time		# of Containers				
Sampler		Lab PM		Date		Time		# of Containers				
Weston Solutions		02056.014.040.0230		7	7	7	7	7		Comments		
1 DOT 040-IL Rte 113												
Braidwood, IL		D. Wright										
M. Doherty-Skibic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals		TOXIC Metals	PH
11		FS3-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X		X	X
12		WLS7-1(0-1)-030816		1105								
13		WLS7-2(0-1)-030816		1117								
14		WLS7-3(0-1)-030816		1127								
15		WLS7-4(0-1)-030816		1139								
16		R63-1(0-1)-030816		1220								
17		R66-1(0-1)-030816		1237								
18		R66-2(0-1)-030816		1250								
19		AL67-1(0-1)-030816		1317								
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X		X	X

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Recontact Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Doherty-Skibic</u>	Company Weston	Date 3-8-2016	Time 1520	Received By <u>[Signature]</u>	Company TA	Date 3/8/16	Time 1520
Relinquished By <u>[Signature]</u>	Company TA	Date 3/8/16	Time 1645	Received By <u>[Signature]</u>	Company TA	Date 3/8/16	Time 1645
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]  
 Shipped:  
 Hand Delivered:

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21860 W. IL 113 (ISGS Site No. 2948-48)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.251897302 Longitude: -88.137893789

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113  
 Latitude: 41.251897302 Longitude: -88.137893789

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 R48-1 THROUGH R48-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-48. SEE FIGURE 3-8 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: 500-108761-1.  
 ALSO SEE FIGURE 4-8 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:

5 MAY 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-48**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	R48-1(0-1)-031416	R48-2(0-1)-031416	R48-3(0-1)-031416	Soil Reference Concentrations
Sample Date	3/14/2016	3/14/2016	3/14/2016	
Location ID	R48-1	R48-2	R48-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-48	2948-48	2948-48	
Parameter				
Laboratory pH	7.69	7.16	8.04	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)anthracene	ND	ND	6.2 J	900 / 1100 / 1800
Total Metals (mg/kg)				
Arsenic, Total	2.2 J-	1.7 J-	0.93 J-	11.3 / 13
Barium, Total	31 J-	6.6 J-	13 J-	1500
Beryllium, Total	0.26 J-	0.13 J	0.12 J	22
Cadmium, Total	ND	0.033 J	ND	5.2
Calcium, Total	2800 J	410 J	1200 J	---
Chromium, Total	7.3 J-	5.2 J-	4.9 J-	21
Iron, Total	8000 J	4800 J	3800 J	15000 / 15900
Lead, Total	7.3 J+	3.2 J+	6.5 J+	107
Manganese, Total	210 J	69 J	34 J	630 / 636
Mercury, Total	0.013 J	ND	ND	0.89
Nickel, Total	6.9	3.7	3	100
Potassium, Total	460 J	220 J	180 J	---
Selenium, Total	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	20 J	10 J	9.7 J	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.13 J	ND	0.13 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	0.61	ND	0.33 J	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.15	0.044	0.14	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	0.023 J	5
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	ND	ND	0.05
Barium, SPLP	0.21 J	0.12 J	0.21 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.046	ND	0.02 J	0.1
Iron, SPLP	44 J+	0.78 J+	13 J+	5
Lead, SPLP	0.052	ND	0.028	0.0075
Manganese, SPLP	0.84	ND	0.077	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.03	ND	0.012 J	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.98 B	ND	ND	5



**Summary Table of ISGS Site No. 2948-48**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108761-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:08:00 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-1(0-1)-031416**

**Lab Sample ID: 500-108761-15**

**Date Collected: 03/14/16 12:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/16/16 21:08	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:08	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/16/16 21:08	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:08	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 21:08	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 21:08	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:08	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/16/16 21:08	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 21:08	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:08	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:08	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/16/16 21:08	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:08	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/16/16 21:08	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 21:08	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:08	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 21:08	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:08	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/16/16 21:08	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/16/16 21:08	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 21:08	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:08	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/16/16 21:08	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:08	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/16/16 21:08	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:08	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 21:08	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 21:08	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 21:08	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:08	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 21:08	1
Dibromofluoromethane	111		75 - 120		03/16/16 21:08	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/16/16 21:08	1
Toluene-d8 (Surr)	115		75 - 122		03/16/16 21:08	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	☼	03/17/16 07:08	03/24/16 00:47	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-1(0-1)-031416**

**Lab Sample ID: 500-108761-15**

**Date Collected: 03/14/16 12:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.4**

**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	86	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Carbazole	<190		190	94	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Chrysene	<37		37	10	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-1(0-1)-031416**

**Lab Sample ID: 500-108761-15**

**Date Collected: 03/14/16 12:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.4**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Isophorone	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Phenanthrene	<37		37	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Phenol	<190		190	84	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Pyrene	<37		37	7.5	ug/Kg	☼	03/17/16 07:08	03/24/16 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		35 - 137				03/17/16 07:08	03/24/16 00:47	1
2-Fluorobiphenyl	95		25 - 119				03/17/16 07:08	03/24/16 00:47	1
2-Fluorophenol	110		25 - 110				03/17/16 07:08	03/24/16 00:47	1
Nitrobenzene-d5	94		25 - 115				03/17/16 07:08	03/24/16 00:47	1
Phenol-d5	92		31 - 110				03/17/16 07:08	03/24/16 00:47	1
Terphenyl-d14	100		36 - 134				03/17/16 07:08	03/24/16 00:47	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
<b>Iron</b>	<b>0.61</b>		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:41	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:41	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:41	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:41	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		03/23/16 14:49	03/25/16 01:37	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:15	1
<b>Chromium</b>	<b>0.046</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:37	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:15	1
<b>Copper</b>	<b>0.051</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:37	1
<b>Iron</b>	<b>44</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:37	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:15	1
<b>Manganese</b>	<b>0.84</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:37	1
<b>Nickel</b>	<b>0.030</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-1(0-1)-031416**

**Lab Sample ID: 500-108761-15**

**Date Collected: 03/14/16 12:45**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.4**

**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		03/23/16 14:49	03/25/16 01:37	1
<b>Zinc</b>	<b>0.98</b>	<b>B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:37	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	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Arsenic</b>	<b>2.2</b>		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Barium</b>	<b>31</b>		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Beryllium</b>	<b>0.26</b>		0.22	0.049	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Calcium</b>	<b>2800</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Chromium</b>	<b>7.3</b>		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Cobalt</b>	<b>4.7</b>		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Copper</b>	<b>5.6</b>		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Iron</b>	<b>8000</b>		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Lead</b>	<b>7.3</b>		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Magnesium</b>	<b>2200</b>	<b>B ^</b>	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Manganese</b>	<b>210</b>		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Nickel</b>	<b>6.9</b>		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Potassium</b>	<b>460</b>		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Vanadium</b>	<b>12</b>		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	1
<b>Zinc</b>	<b>20</b>		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 06:42	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		03/23/16 09:00	03/23/16 17:58	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		03/23/16 17:00	03/24/16 11:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	18	9.6	ug/Kg	☼	03/21/16 15:30	03/22/16 23:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.69</b>		0.200	0.200	SU			03/17/16 14:11	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-2(0-1)-031416**

**Lab Sample ID: 500-108761-16**

**Date Collected: 03/14/16 13:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/16/16 21:32	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:32	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/16/16 21:32	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:32	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 21:32	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/16/16 21:32	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:32	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/16/16 21:32	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 21:32	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:32	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/16/16 21:32	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/16/16 21:32	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:32	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/16/16 21:32	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 21:32	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:32	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 21:32	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:32	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/16/16 21:32	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/16/16 21:32	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/16/16 21:32	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:32	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/16/16 21:32	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/16/16 21:32	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/16/16 21:32	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/16/16 21:32	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/16/16 21:32	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/16/16 21:32	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/16/16 21:32	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/16/16 21:32	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 21:32	1
Dibromofluoromethane	112		75 - 120		03/16/16 21:32	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 21:32	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 21:32	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	☼	03/17/16 07:08	03/24/16 01:16	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-2(0-1)-031416**

**Lab Sample ID: 500-108761-16**

**Date Collected: 03/14/16 13:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.5**

**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	87	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Carbazole	<190		190	96	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Chrysene	<38		38	10	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-2(0-1)-031416**

**Lab Sample ID: 500-108761-16**

**Date Collected: 03/14/16 13:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Phenol	<190		190	85	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1
Pyrene	<38		38	7.6	ug/Kg	☼	03/17/16 07:08	03/24/16 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137	03/17/16 07:08	03/24/16 01:16	1
2-Fluorobiphenyl	105		25 - 119	03/17/16 07:08	03/24/16 01:16	1
2-Fluorophenol	119	X	25 - 110	03/17/16 07:08	03/24/16 01:16	1
Nitrobenzene-d5	103		25 - 115	03/17/16 07:08	03/24/16 01:16	1
Phenol-d5	90		31 - 110	03/17/16 07:08	03/24/16 01:16	1
Terphenyl-d14	105		36 - 134	03/17/16 07:08	03/24/16 01:16	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Barium	<0.50		0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:47	1
<b>Manganese</b>	<b>0.044</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:47	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:47	1
Zinc	<0.50		0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:47	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		03/23/16 14:49	03/25/16 01:42	1
<b>Barium</b>	<b>0.12</b>	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:19	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:42	1
<b>Iron</b>	<b>0.78</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:19	1
Manganese	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-2(0-1)-031416**

**Lab Sample ID: 500-108761-16**

**Date Collected: 03/14/16 13:00**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 85.5**

**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		03/23/16 14:49	03/25/16 01:42	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:42	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	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Arsenic</b>	<b>1.7</b>		0.55	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Barium</b>	<b>6.6</b>		0.55	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Beryllium</b>	<b>0.13</b>	<b>J</b>	0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Cadmium</b>	<b>0.033</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Calcium</b>	<b>410</b>	<b>B</b>	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Chromium</b>	<b>5.2</b>		0.55	0.095	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Cobalt</b>	<b>1.9</b>		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Copper</b>	<b>3.1</b>		0.55	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Iron</b>	<b>4800</b>		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Lead</b>	<b>3.2</b>		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Magnesium</b>	<b>490</b>	<b>B ^</b>	5.5	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Manganese</b>	<b>69</b>		0.55	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Nickel</b>	<b>3.7</b>		0.55	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Potassium</b>	<b>220</b>		28	4.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Sodium</b>	<b>620</b>	<b>B</b>	55	7.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Vanadium</b>	<b>9.3</b>		0.28	0.081	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	1
<b>Zinc</b>	<b>10</b>		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 06:46	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		03/23/16 09:00	03/23/16 18:00	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		03/23/16 17:00	03/24/16 11:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.4	ug/Kg	☼	03/21/16 15:30	03/22/16 23:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.16</b>		0.200	0.200	SU			03/17/16 14:16	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-3(0-1)-031416**

**Lab Sample ID: 500-108761-17**

**Date Collected: 03/14/16 13:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 86.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/16/16 21:57	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 21:57	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/16/16 21:57	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 21:57	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 21:57	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/16/16 21:57	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 21:57	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 21:57	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/16/16 21:57	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/16/16 21:57	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 21:57	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 21:57	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 21:57	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/16/16 21:57	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/16/16 21:57	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 21:57	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/16/16 21:57	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 21:57	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/16/16 21:57	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 21:57	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 21:57	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 21:57	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 21:57	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 21:57	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 21:57	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/16/16 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 21:57	1
Dibromofluoromethane	111		75 - 120		03/16/16 21:57	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/16/16 21:57	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 21:57	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	40	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-3(0-1)-031416**

**Lab Sample ID: 500-108761-17**

**Date Collected: 03/14/16 13:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 86.0**

**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	84	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Methylnaphthalene	<36		36	6.8	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
<b>Benzo[a]anthracene</b>	<b>6.2 J *</b>		36	4.9	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Benzo[a]pyrene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Benzo[b]fluoranthene	<36 *		36	7.9	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Carbazole	<180		180	92	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Chrysene	<36 *		36	10	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
<b>Fluoranthene</b>	<b>10 J</b>		36	6.8	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-3(0-1)-031416**

**Lab Sample ID: 500-108761-17**

**Date Collected: 03/14/16 13:15**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 86.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36	*	36	9.5	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	36	5.1	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Phenol	<180		180	82	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
<b>Pyrene</b>	<b>24</b>	<b>J *</b>	36	7.3	ug/Kg	☼	03/17/16 07:08	03/26/16 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		35 - 137				03/17/16 07:08	03/26/16 02:44	1
2-Fluorobiphenyl	91		25 - 119				03/17/16 07:08	03/26/16 02:44	1
2-Fluorophenol	85		25 - 110				03/17/16 07:08	03/26/16 02:44	1
Nitrobenzene-d5	90		25 - 115				03/17/16 07:08	03/26/16 02:44	1
Phenol-d5	84		31 - 110				03/17/16 07:08	03/26/16 02:44	1
Terphenyl-d14	190	X *	36 - 134				03/17/16 07:08	03/26/16 02:44	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		03/22/16 14:26	03/24/16 21:52	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
<b>Iron</b>	<b>0.33</b>	<b>J</b>	0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:52	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:52	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:52	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:52	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		03/23/16 14:49	03/25/16 01:46	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:23	1
<b>Chromium</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:23	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:46	1
<b>Iron</b>	<b>13</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:46	1
<b>Lead</b>	<b>0.028</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:23	1
<b>Manganese</b>	<b>0.077</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:46	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: R48-3(0-1)-031416**

**Lab Sample ID: 500-108761-17**

Date Collected: 03/14/16 13:15

Matrix: Solid

Date Received: 03/14/16 17:25

Percent Solids: 86.0

**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		03/23/16 14:49	03/25/16 01:46	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:46	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	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Arsenic</b>	<b>0.93</b>		0.58	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Barium</b>	<b>13</b>		0.58	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Beryllium</b>	<b>0.12</b>	<b>J</b>	0.23	0.050	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Calcium</b>	<b>1200</b>	<b>B</b>	12	3.7	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Chromium</b>	<b>4.9</b>		0.58	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Cobalt</b>	<b>1.2</b>		0.29	0.066	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Copper</b>	<b>1.8</b>		0.58	0.13	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Iron</b>	<b>3800</b>		12	4.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Lead</b>	<b>6.5</b>		0.29	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Magnesium</b>	<b>910</b>	<b>B ^</b>	5.8	2.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Manganese</b>	<b>34</b>		0.58	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Nickel</b>	<b>3.0</b>		0.58	0.16	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Potassium</b>	<b>180</b>		29	4.7	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Sodium</b>	<b>350</b>	<b>B</b>	58	7.7	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Vanadium</b>	<b>8.2</b>		0.29	0.085	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1
<b>Zinc</b>	<b>9.7</b>		1.2	0.37	mg/Kg	☼	03/17/16 14:03	03/25/16 06:51	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 18:02	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		03/23/16 17:00	03/24/16 11:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	10	ug/Kg	☼	03/21/16 15:30	03/22/16 23:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.04</b>		0.200	0.200	SU			03/17/16 14:22	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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. Babusukumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: same  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108761  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #																	
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bridgeland Center Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	DOCS	SUOS	Total Metals	TRAP/SLP Metals	PH							Comments	
			Date	Time															
<u>11</u>		<u>R55-1(0-1)-031416</u>	<u>3-14-16</u>	<u>1205</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>								
<u>12</u>		<u>CPS4-1(0-1)-031416</u>		<u>1215</u>															
<u>13</u>		<u>CPS-1(0-1)-031416</u>		<u>1220</u>															
<u>14</u>		<u>EG-1(0-1)-031416</u>		<u>1240</u>															
<u>15</u>		<u>R48-1(0-1)-031416</u>		<u>1245</u>															
<u>16</u>		<u>R48-2(0-1)-031416</u>		<u>1300</u>															
<u>17</u>		<u>R48-3(0-1)-031416</u>		<u>1315</u>															
<u>18</u>		<u>R45-1(0-1)-031417</u>		<u>1335</u>															
<u>19</u>		<u>R45-2(0-1)-031417</u>		<u>1345</u>															
<u>20</u>		<u>R45-2(0-1)-031417D</u>	<u>3-14-16</u>	<u>1345</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days skunked 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>
Relinquished By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Theresa</u>	Company <u>TA-CPE</u>	Date <u>3/15/16</u>	Time <u>0725</u>

<p>Matrix Key</p> <p>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</p>	Client Comments	Lab Comments:
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Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21800 block of W. IL 113, (ISGS Site No. 2948-49)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.250495992 Longitude: -88.137396879

(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

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

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: FAU 327: Illinois Route 113

Latitude: 41.250495992 Longitude: -88.137396879

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 AB49-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-49. SEE FIGURE 3-8 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: 500-108492-1.  
ALSO SEE FIGURE 4-8 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:

5 May 2016

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-49**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	AB49-1(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	
Location ID	AB49-1	
Depth	0 - 1	
Location Code	2948-49	
Parameter		
Laboratory pH	8.5	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.3 J	11.3 / 13
Barium, Total	8.1	1500
Beryllium, Total	0.21	22
Cadmium, Total	0.043 J	5.2
Calcium, Total	180000 J	---
Chromium, Total	ND	21
Iron, Total	4400 J+	15000 / 15900
Lead, Total	4.1 J	107
Manganese, Total	220 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	5.4 J+	100
Potassium, Total	910 J	---
Selenium, Total	0.3 J	1.3
Silver, Total	ND	4.4
Zinc, Total	8.3	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.083 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	ND	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	ND	0.1
Iron, SPLP	0.59 J-	5
Lead, SPLP	ND	0.0075
Manganese, SPLP	ND	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.022 J	5

**Summary Table of ISGS Site No. 2948-49**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
- 9
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- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AB49-1(0-1)-030816**

**Lab Sample ID: 500-108492-7**

**Date Collected: 03/08/16 10:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 93.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/10/16 06:00	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/10/16 06:00	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/10/16 06:00	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/10/16 06:00	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/10/16 06:00	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/10/16 06:00	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/10/16 06:00	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/10/16 06:00	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/10/16 06:00	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/10/16 06:00	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/10/16 06:00	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/10/16 06:00	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/10/16 06:00	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
2-Hexanone	<5.3		5.3	1.7	ug/Kg	☼		03/10/16 06:00	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/10/16 06:00	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/10/16 06:00	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/10/16 06:00	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.85	ug/Kg	☼		03/10/16 06:00	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/10/16 06:00	1
Toluene	<5.3		5.3	1.9	ug/Kg	☼		03/10/16 06:00	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/10/16 06:00	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/10/16 06:00	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/10/16 06:00	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/10/16 06:00	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/10/16 06:00	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 06:00	1
Dibromofluoromethane	109		75 - 120		03/10/16 06:00	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/10/16 06:00	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 06:00	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	☼	03/10/16 07:16	03/15/16 03:14	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AB49-1(0-1)-030816**

**Lab Sample ID: 500-108492-7**

**Date Collected: 03/08/16 10:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 93.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Benzo[a]pyrene	<35 *		35	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Benzo[b]fluoranthene	<35 *		35	7.6	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Benzo[g,h,i]perylene	<35 *		35	11	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Benzo[k]fluoranthene	<35 *		35	10	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Chrysene	<35		35	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Dibenz(a,h)anthracene	<35 *		35	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Fluoranthene	<35		35	6.5	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AB49-1(0-1)-030816**

**Lab Sample ID: 500-108492-7**

**Date Collected: 03/08/16 10:10**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 93.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.1	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Isophorone	<180		180	39	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1
<b>Pyrene</b>	<b>7.7</b>	<b>J</b>	35	7.0	ug/Kg	☼	03/10/16 07:16	03/15/16 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137	03/10/16 07:16	03/15/16 03:14	1
2-Fluorobiphenyl	84		25 - 119	03/10/16 07:16	03/15/16 03:14	1
2-Fluorophenol	90		25 - 110	03/10/16 07:16	03/15/16 03:14	1
Nitrobenzene-d5	76		25 - 115	03/10/16 07:16	03/15/16 03:14	1
Phenol-d5	85		31 - 110	03/10/16 07:16	03/15/16 03:14	1
Terphenyl-d14	157	X	36 - 134	03/10/16 07:16	03/15/16 03:14	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
<b>Barium</b>	<b>0.083</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:49	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:49	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:49	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:49	1
<b>Zinc</b>	<b>0.066</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:49	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		03/13/16 15:00	03/14/16 20:13	1
Barium	<0.50		0.50	0.050	mg/L		03/13/16 15:00	03/14/16 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 20:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:13	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:13	1
<b>Iron</b>	<b>0.59</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 20:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 20:13	1
Manganese	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 20:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: AB49-1(0-1)-030816**

**Lab Sample ID: 500-108492-7**

Date Collected: 03/08/16 10:10

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 93.9

**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		03/13/16 15:00	03/14/16 20:13	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 20:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.19</b>	<b>J</b>	0.81	0.17	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Arsenic</b>	<b>1.3</b>		0.40	0.19	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Barium</b>	<b>8.1</b>		0.40	0.074	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Beryllium</b>	<b>0.21</b>		0.16	0.035	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Cadmium</b>	<b>0.043</b>	<b>J</b>	0.081	0.023	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Calcium</b>	<b>180000</b>	<b>B</b>	81	26	mg/Kg	☼	03/14/16 09:24	03/16/16 06:46	10
<b>Chromium</b>	<b>4.7</b>	<b>B</b>	2.0	0.069	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Cobalt</b>	<b>2.1</b>		0.20	0.046	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Copper</b>	<b>3.4</b>		0.40	0.087	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Iron</b>	<b>4400</b>	<b>B</b>	8.1	3.1	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Lead</b>	<b>4.1</b>		0.20	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Magnesium</b>	<b>110000</b>	<b>B</b>	40	16	mg/Kg	☼	03/14/16 09:24	03/16/16 06:46	10
<b>Manganese</b>	<b>220</b>		0.40	0.080	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Nickel</b>	<b>5.4</b>	<b>B</b>	0.40	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Potassium</b>	<b>910</b>		20	3.3	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.40	0.20	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
Silver	<0.20		0.20	0.047	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Sodium</b>	<b>260</b>		40	5.3	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
Thallium	<0.40		0.40	0.20	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Vanadium</b>	<b>5.4</b>		0.20	0.059	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1
<b>Zinc</b>	<b>8.3</b>		0.81	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 19:26	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 13:17	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		03/13/16 18:00	03/15/16 14:14	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.3	ug/Kg	☼	03/15/16 16:45	03/16/16 18:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.50</b>		0.200	0.200	SU			03/10/16 13:48	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534



500-108492 COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of \_\_\_\_\_  
Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		VOCs	SVOCs	Total Metals	TOC/SP/ Metals	pH		
Project Location/State		Lab PM		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments
1		AL44-2(0-1)-030816	3-8-16	0850	2	S	X	X	X	X	X	
2		AL44-3(0-1)-030816		0910								
3		R46-1(0-1)-030816		0917								
4		R46-2(0-1)-030816		0938								
5		R46-3(0-1)-030816		0947								
6		R47-1(0-1)-030816		1000								
7		AB49-1(0-1)-030816		1010								
8		WLS1-1(0-1)-030816		1020								
9		F53-1(0-1)-030816		1035								
10		F53-2(0-1)-030816	3-8-16	1045	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Pls Contact 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>omj. jolly, ill</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>NO</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: S. Bahns-Kumar  
 Company: Weston Solutions Inc  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

Bill To (optional)  
 Contact: SAME  
 Company:  
 Address:  
 Address:  
 Phone:  
 Fax:  
 PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
 Chain of Custody Number:  
 Page 2 of  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Date		Time		# of Containers				
Weston Solutions		02056.014.040.0230		7		7		7		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
1 DOT 040-IL Rte 113				VOCs		SVOCs		TOTAL Metals				
Braunwood, IL								TOURISPL Metals				
SAMPLER M. Doherty-Skibic		Lab PM D. Wright						PH				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
11		FS3-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X		X	X
12		WLS7-1(0-1)-030816		1105								
13		WLS7-2(0-1)-030816		1117								
14		WLS7-3(0-1)-030816		1127								
15		WLS7-4(0-1)-030816		1139								
16		R63-1(0-1)-030816		1220								
17		R66-1(0-1)-030816		1237								
18		R66-2(0-1)-030816		1250								
19		AL67-1(0-1)-030816		1317								
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X		X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Re-contact Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Doherty-Skibic</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier [Signature]  
 Shipped  
 Hand Delivered

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21800 Block of W. IL 113 (ISGS Site No. 2948-50)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.250131391 Longitude: -88.136969425

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.250131391 Longitude: -88.136969425

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 EG-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-50. SEE FIGURE 3-8 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: 500-108761-1.  
ALSO SEE FIGURE 4-8 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:

5 May 2016

Date:



Professional Seal:



**Summary Table of ISGS Site No. 2948-50**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

<b>Field Sample ID</b>	EG-1(0-1)-031416	<b>Soil Reference Concentrations</b>
<b>Sample Date</b>	3/14/2016	
<b>Location ID</b>	EG-1	
<b>Depth</b>	0 - 1	
<b>Location Code</b>	2948-50	
<b>Parameter</b>		
Laboratory pH	8.7	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	23 J	900 / 1100 / 1800
Benzo(a)pyrene	26 J	90 / 1300 / 2100
Benzo(b)fluoranthene	46 J	900 / 1500 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.3 J-	11.3 / 13
Barium, Total	26 J-	1500
Beryllium, Total	0.32 J-	22
Cadmium, Total	0.046 J	5.2
Calcium, Total	92000 J	---
Chromium, Total	8.7 J-	21
Iron, Total	7400 J	15000 / 15900
Lead, Total	38 J+	107
Manganese, Total	180 J	630 / 636
Mercury, Total	0.012 J	0.89
Nickel, Total	8.3	100
Potassium, Total	720 J	---
Selenium, Total	0.35 J	1.3
Silver, Total	ND	4.4
Zinc, Total	35 J	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.2 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.01 J	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.032 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.2 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.073	0.1
Iron, SPLP	64 J+	5
Lead, SPLP	0.12	0.0075
Manganese, SPLP	0.33	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.044	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

**Summary Table of ISGS Site No. 2948-50**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108761-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/28/2016 4:08:00 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: EG-1(0-1)-031416**

**Lab Sample ID: 500-108761-14**

**Date Collected: 03/14/16 12:40**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 91.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/16/16 20:43	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 20:43	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/16/16 20:43	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 20:43	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 20:43	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 20:43	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/16/16 20:43	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 20:43	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/16/16 20:43	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/16/16 20:43	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 20:43	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 20:43	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/16/16 20:43	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 20:43	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/16/16 20:43	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/16/16 20:43	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/16/16 20:43	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/16/16 20:43	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/16/16 20:43	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/16/16 20:43	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/16/16 20:43	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 20:43	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/16/16 20:43	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 20:43	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/16/16 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/16/16 20:43	1
Dibromofluoromethane	111		75 - 120		03/16/16 20:43	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 20:43	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 20:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: EG-1(0-1)-031416**

**Lab Sample ID: 500-108761-14**

**Date Collected: 03/14/16 12:40**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 91.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
3,3'-Dichlorobenzidine	<170 *		170	48	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Acenaphthylene</b>	<b>6.5 J</b>		34	4.5	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Anthracene	<34		34	5.8	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Benzo[a]anthracene</b>	<b>23 J *</b>		34	4.6	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Benzo[a]pyrene</b>	<b>26 J *</b>		34	6.7	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Benzo[b]fluoranthene</b>	<b>46 *</b>		34	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Benzo[g,h,i]perylene	<34 *		34	11	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Benzo[k]fluoranthene</b>	<b>25 J *</b>		34	10	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Bis(2-ethylhexyl) phthalate	<170 *		170	63	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Butyl benzyl phthalate	<170 *		170	66	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Carbazole	<170		170	86	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Chrysene</b>	<b>27 J *</b>		34	9.4	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Dibenz(a,h)anthracene	<34 *		34	6.7	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Fluoranthene</b>	<b>42</b>		34	6.4	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: EG-1(0-1)-031416**

**Lab Sample ID: 500-108761-14**

**Date Collected: 03/14/16 12:40**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 91.3**

## 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	<34	*	34	8.9	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Isophorone	<170		170	39	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Pentachlorophenol	<700		700	550	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Phenanthrene</b>	<b>25</b>	<b>J</b>	34	4.8	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Phenol	<170		170	77	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
<b>Pyrene</b>	<b>82</b>	<b>*</b>	34	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 06:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/17/16 07:08	03/24/16 06:32	1
2-Fluorobiphenyl	92		25 - 119				03/17/16 07:08	03/24/16 06:32	1
2-Fluorophenol	98		25 - 110				03/17/16 07:08	03/24/16 06:32	1
Nitrobenzene-d5	90		25 - 115				03/17/16 07:08	03/24/16 06:32	1
Phenol-d5	66		31 - 110				03/17/16 07:08	03/24/16 06:32	1
Terphenyl-d14	205	X *	36 - 134				03/17/16 07:08	03/24/16 06:32	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:36	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:36	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:36	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:36	1

## Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:49	03/25/16 01:33	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 19:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 19:10	1
<b>Chromium</b>	<b>0.073</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:33	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 19:10	1
<b>Copper</b>	<b>0.036</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:33	1
<b>Iron</b>	<b>64</b>		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:33	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 19:10	1
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:33	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

**Client Sample ID: EG-1(0-1)-031416**

**Lab Sample ID: 500-108761-14**

**Date Collected: 03/14/16 12:40**

**Matrix: Solid**

**Date Received: 03/14/16 17:25**

**Percent Solids: 91.3**

**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		03/23/16 14:49	03/25/16 01:33	1
<b>Zinc</b>	<b>0.37</b>	<b>J B</b>	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:33	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	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Arsenic</b>	<b>1.3</b>		0.54	0.25	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Barium</b>	<b>26</b>		0.54	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Beryllium</b>	<b>0.32</b>		0.22	0.047	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Cadmium</b>	<b>0.046</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Calcium</b>	<b>92000</b>	<b>B</b>	110	35	mg/Kg	☼	03/17/16 14:03	03/25/16 22:38	10
<b>Chromium</b>	<b>8.7</b>		0.54	0.094	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Cobalt</b>	<b>4.6</b>		0.27	0.061	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Copper</b>	<b>5.9</b>		0.54	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Iron</b>	<b>7400</b>		11	4.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Lead</b>	<b>38</b>		0.27	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Magnesium</b>	<b>46000</b>	<b>B ^</b>	5.4	2.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Manganese</b>	<b>180</b>		0.54	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Nickel</b>	<b>8.3</b>		0.54	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Potassium</b>	<b>720</b>		27	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.54	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Sodium</b>	<b>790</b>	<b>B</b>	54	7.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Vanadium</b>	<b>7.1</b>		0.27	0.079	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	1
<b>Zinc</b>	<b>35</b>		1.1	0.34	mg/Kg	☼	03/17/16 14:03	03/25/16 06:37	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		03/23/16 09:00	03/23/16 17:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	18	9.5	ug/Kg	☼	03/21/16 15:30	03/22/16 23:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.70</b>		0.200	0.200	SU			03/17/16 14:06	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108761-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
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. Babusukumar  
 Company: Weston  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: same  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108761  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 4  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #																	
<u>INDOT-040</u>																			
Project Location/State		Lab PM																	
<u>Bridgeland Center Park/IL</u>		<u>D. Wright</u>																	
Sampler																			
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	DOCS	SUOS	Total Metals	TRAP/SLP Metals	PH							Comments	
			Date	Time															
<u>11</u>		<u>R55-1(0-1)-031416</u>	<u>3-14-16</u>	<u>1205</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>T</u>								
<u>12</u>		<u>CPSY-1(0-1)-031416</u>		<u>1215</u>															
<u>13</u>		<u>CBB-1(0-1)-031416</u>		<u>1220</u>															
<u>14</u>		<u>EG-1(0-1)-031416</u>		<u>1240</u>															
<u>15</u>		<u>R48-1(0-1)-031416</u>		<u>1245</u>															
<u>16</u>		<u>R48-2(0-1)-031416</u>		<u>1300</u>															
<u>17</u>		<u>R48-3(0-1)-031416</u>		<u>1315</u>															
<u>18</u>		<u>R45-1(0-1)-031417</u>		<u>1335</u>															
<u>19</u>		<u>R45-2(0-1)-031417</u>		<u>1345</u>															
<u>20</u>		<u>R45-2(0-1)-031417D</u>	<u>3-14-16</u>	<u>1345</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days skunked 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>T. Walls</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Received By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>1645</u>	Lab Courier <u>TA</u>
Relinquished By <u>Dave Becken</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Theresa</u>	Company <u>TA-CPE</u>	Date <u>3/15/16</u>	Time <u>0725</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: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21800 Block of W. IL 113 (ISGS Site No. 2948-51)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.249984562 Longitude: -88.137037327

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113

Latitude: 41.249984562 Longitude: -88.137037327

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 WL51-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-51. SEE FIGURE 3-8 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: 500-108492-1.  
ALSO SEE FIGURE 4-8 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.

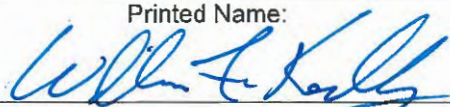
Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



5 May 2016

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date:



P.E. or L.P.G. Seal:

**Summary Table of ISGS Site No. 2948-51**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

Field Sample ID	WL51-1(0-1)-030816	<b>Soil Reference Concentrations</b>
Sample Date	3/8/2016	
Location ID	WL51-1	
Depth	0 - 1	
Location Code	2948-51	
Parameter		
Laboratory pH	8.26	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	3 J	11.3 / 13
Barium, Total	44	1500
Beryllium, Total	0.57	22
Cadmium, Total	ND	5.2
Calcium, Total	81000 J	---
Chromium, Total	10 J	21
Iron, Total	15000 J+	15000 / 15900
Lead, Total	20 J	107
Manganese, Total	440 J	630 / 636
Mercury, Total	0.029	0.89
Nickel, Total	14 J+	100
Potassium, Total	860 J	---
Selenium, Total	0.48 J	1.3
Silver, Total	ND	4.4
Zinc, Total	44	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.22 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.34	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.024 J	0.05
Barium, SPLP	0.42 J	2
Beryllium, SPLP	0.0062	0.004
Cadmium, SPLP	0.0024 J	0.005
Chromium, SPLP	0.14	0.1
Iron, SPLP	170 J-	5
Lead, SPLP	0.071	0.0075
Manganese, SPLP	0.69	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.085	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.68	5

**Summary Table of ISGS Site No. 2948-51**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.


ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
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- 5
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL51-1(0-1)-030816**

**Lab Sample ID: 500-108492-8**

**Date Collected: 03/08/16 10:20**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 82.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/10/16 06:26	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 06:26	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/10/16 06:26	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 06:26	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 06:26	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 06:26	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/10/16 06:26	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/10/16 06:26	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/10/16 06:26	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 06:26	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 06:26	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 06:26	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 06:26	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/10/16 06:26	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/10/16 06:26	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 06:26	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/10/16 06:26	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 06:26	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 06:26	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 06:26	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 06:26	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 06:26	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 06:26	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 06:26	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/10/16 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 06:26	1
Dibromofluoromethane	110		75 - 120		03/10/16 06:26	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/10/16 06:26	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 06:26	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	☼	03/10/16 07:16	03/12/16 11:18	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL51-1(0-1)-030816**

**Lab Sample ID: 500-108492-8**

**Date Collected: 03/08/16 10:20**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 82.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Carbazole	<200		200	98	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Chrysene	<39		39	11	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL51-1(0-1)-030816**

**Lab Sample ID: 500-108492-8**

**Date Collected: 03/08/16 10:20**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 82.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Isophorone	<200		200	44	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Phenol	<200		200	87	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Pyrene	<39		39	7.8	ug/Kg	☼	03/10/16 07:16	03/12/16 11:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	25	X	35 - 137				03/10/16 07:16	03/12/16 11:18	1
2-Fluorobiphenyl	92		25 - 119				03/10/16 07:16	03/12/16 11:18	1
2-Fluorophenol	86		25 - 110				03/10/16 07:16	03/12/16 11:18	1
Nitrobenzene-d5	75		25 - 115				03/10/16 07:16	03/12/16 11:18	1
Phenol-d5	74		31 - 110				03/10/16 07:16	03/12/16 11:18	1
Terphenyl-d14	92		36 - 134				03/10/16 07:16	03/12/16 11:18	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 23:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 23:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 23:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 23:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 23:56	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 23:56	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 23:56	1
<b>Zinc</b>	<b>0.039</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 23:56	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.024</b>	<b>J</b>	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Beryllium</b>	<b>0.0062</b>		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J ^</b>	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Copper</b>	<b>0.090</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Iron</b>	<b>170</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Lead</b>	<b>0.071</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
<b>Nickel</b>	<b>0.085</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 20:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL51-1(0-1)-030816**

**Lab Sample ID: 500-108492-8**

**Date Collected: 03/08/16 10:20**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 82.8**

**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		03/13/16 15:00	03/14/16 20:20	1
<b>Zinc</b>	<b>0.68</b>		0.50	0.020	mg/L		03/13/16 15:00	03/14/16 20:20	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	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Arsenic</b>	<b>3.0</b>		0.58	0.27	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Barium</b>	<b>44</b>		0.58	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.050	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Calcium</b>	<b>81000</b>	<b>B</b>	120	37	mg/Kg	☼	03/14/16 09:24	03/16/16 06:52	10
<b>Chromium</b>	<b>10</b>	<b>B</b>	2.9	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Copper</b>	<b>9.1</b>		0.58	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Iron</b>	<b>15000</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Lead</b>	<b>20</b>		0.29	0.14	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Manganese</b>	<b>440</b>		0.58	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Nickel</b>	<b>14</b>	<b>B</b>	0.58	0.16	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Potassium</b>	<b>860</b>		29	4.7	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Sodium</b>	<b>880</b>		58	7.6	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Vanadium</b>	<b>16</b>		0.29	0.084	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	1
<b>Zinc</b>	<b>44</b>		1.2	0.37	mg/Kg	☼	03/14/16 09:24	03/14/16 19:31	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		03/13/16 18:00	03/15/16 13:19	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		03/13/16 18:00	03/15/16 15:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>29</b>		19	9.7	ug/Kg	☼	03/15/16 16:45	03/16/16 18:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.26</b>		0.200	0.200	SU			03/10/16 13:50	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: S. Bahns-Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of \_\_\_\_\_  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		SAMPLING		Matrix		Comments			
Project Location/State		SAMPLING		Matrix		Matrix					
Sampler		Lab PM		Matrix		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TOXIC Metals	PH
11		F53-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X	X	X
12		WLS7-1(0-1)-030816		1105							
13		WLS7-2(0-1)-030816		1117							
14		WLS7-3(0-1)-030816		1127							
15		WLS7-4(0-1)-030816		1139							
16		R63-1(0-1)-030816		1220							
17		R66-1(0-1)-030816		1237							
18		R66-2(0-1)-030816		1250							
19		AL67-1(0-1)-030816		1317							
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Recontact Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Doherty-Skibic</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key  
WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments:

Lab Comments:



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 327: Illinois Route 113 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
21500-21700 blocks of W. IL 113, (ISGS Site No. 2948-57)

City: Unincorporated State: IL Zip Code: \_\_\_\_\_

County: Will Township: Custer

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.246986681 Longitude: -88.134463373  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 327: Illinois Route 113  
Latitude: 41.246986681 Longitude: -88.134463373

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 WL57-4 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-57. SEE FIGURE 3-9 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: 500-108492-1.  
ALSO SEE FIGURE 4-9 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:

5 MAY 2016  
Date:



P.E. or L.P.G. Seal:



**Summary Table of ISGS Site No. 2948-57**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

<b>Field Sample ID</b>	WL57-4(0-1)-030816	<b>Soil Reference Concentrations</b>
<b>Sample Date</b>	3/8/2016	
<b>Location ID</b>	WL57-4	
<b>Depth</b>	0 - 1	
<b>Location Code</b>	2948-57	
<b>Parameter</b>		
Laboratory pH	7.9	<6.25,>9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	1.8 J	11.3 / 13
Barium, Total	25	1500
Beryllium, Total	0.23	22
Cadmium, Total	0.046 J	5.2
Calcium, Total	1900 J	---
Chromium, Total	7.6 J	21
Iron, Total	6500 J+	15000 / 15900
Lead, Total	5.7 J	107
Manganese, Total	180 J	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	5.4 J+	100
Potassium, Total	420 J	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	18	5100
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.13 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.071	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.17 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.031	0.1
Iron, SPLP	35 J-	5
Lead, SPLP	0.022	0.0075
Manganese, SPLP	0.57	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.022 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.12 J	5

**Summary Table of ISGS Site No. 2948-57**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 327: Illinois Route 113 from Comet Drive to Kankakee County Line**  
**Braidwood and Custer Park, Will County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

\* - Laboratory control standard or its duplicate is outside of acceptance limits.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108492-1  
Client Project/Site: IDOT - IL Route 113 - WO 040

For:  
Weston Solutions, Inc.  
300 Plaza Circle, Suite 202  
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/17/2016 4:48:48 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

- 1
- 2
- 3
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- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL57-4(0-1)-030816**

**Lab Sample ID: 500-108492-15**

**Date Collected: 03/08/16 11:39**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 12:26	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 12:26	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/10/16 12:26	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 12:26	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 12:26	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 12:26	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 12:26	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 12:26	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 12:26	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 12:26	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 12:26	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 12:26	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 12:26	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 12:26	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 12:26	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 12:26	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 12:26	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 12:26	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 12:26	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 12:26	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 12:26	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 12:26	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 12:26	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 12:26	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 12:26	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 12:26	1
Dibromofluoromethane	109		75 - 120		03/10/16 12:26	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/10/16 12:26	1
Toluene-d8 (Surr)	107		75 - 122		03/10/16 12:26	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	40	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL57-4(0-1)-030816**

**Lab Sample ID: 500-108492-15**

**Date Collected: 03/08/16 11:39**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	84	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Methylnaphthalene	<36		36	6.8	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Carbazole	<180		180	92	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Chrysene	<36		36	10	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL57-4(0-1)-030816**

**Lab Sample ID: 500-108492-15**

**Date Collected: 03/08/16 11:39**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.3**

**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	<36		36	9.5	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Phenol	<180		180	82	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Pyrene	<36		36	7.3	ug/Kg	☼	03/10/16 07:16	03/12/16 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	29	X	35 - 137				03/10/16 07:16	03/12/16 12:16	1
2-Fluorobiphenyl	84		25 - 119				03/10/16 07:16	03/12/16 12:16	1
2-Fluorophenol	92		25 - 110				03/10/16 07:16	03/12/16 12:16	1
Nitrobenzene-d5	74		25 - 115				03/10/16 07:16	03/12/16 12:16	1
Phenol-d5	75		31 - 110				03/10/16 07:16	03/12/16 12:16	1
Terphenyl-d14	95		36 - 134				03/10/16 07:16	03/12/16 12:16	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:44	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 00:44	1
<b>Manganese</b>	<b>0.071</b>		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:44	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:44	1
<b>Zinc</b>	<b>0.023</b>	<b>J B</b>	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:44	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 21:23	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Chromium</b>	<b>0.031</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Iron</b>	<b>35</b>		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Manganese</b>	<b>0.57</b>		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 21:23	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

**Client Sample ID: WL57-4(0-1)-030816**

**Lab Sample ID: 500-108492-15**

**Date Collected: 03/08/16 11:39**

**Matrix: Solid**

**Date Received: 03/08/16 16:45**

**Percent Solids: 87.3**

**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		03/13/16 15:00	03/14/16 21:23	1
<b>Zinc</b>	<b>0.12</b>	<b>J</b>	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 21:23	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	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Arsenic</b>	<b>1.8</b>		0.54	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Barium</b>	<b>25</b>		0.54	0.099	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Beryllium</b>	<b>0.23</b>		0.22	0.047	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Cadmium</b>	<b>0.046</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Chromium</b>	<b>7.6</b>	<b>B</b>	2.7	0.093	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Cobalt</b>	<b>2.5</b>		0.27	0.061	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Copper</b>	<b>3.5</b>		0.54	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Iron</b>	<b>6500</b>	<b>B</b>	11	4.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Lead</b>	<b>5.7</b>		0.27	0.14	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Magnesium</b>	<b>1100</b>	<b>B</b>	5.4	2.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Manganese</b>	<b>180</b>		0.54	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Nickel</b>	<b>5.4</b>	<b>B</b>	0.54	0.15	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Potassium</b>	<b>420</b>		27	4.4	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Sodium</b>	<b>320</b>		54	7.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Vanadium</b>	<b>12</b>		0.27	0.079	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	1
<b>Zinc</b>	<b>18</b>		1.1	0.34	mg/Kg	☼	03/14/16 09:24	03/14/16 20:15	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		03/13/16 18:00	03/15/16 13:37	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 14:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	9.7	ug/Kg	☼	03/15/16 16:45	03/16/16 18:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.90</b>		0.200	0.200	SU			03/10/16 14:09	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## Qualifiers

### GC/MS Semi VOA

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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108492-1

## 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
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 60  
Phone: 708.534.5200 Fax: 708.534



500-108492 COC

Report To (optional)  
Contact: S. Babus Kumar  
Company: Weston Solutions Inc  
Address: 300 Plaza Circle, Ste. 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

Bill To (optional)  
Contact: SAME  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of \_\_\_\_\_  
Temperature °C of Cooler: 3.0

Client		Client Project #		Preservative		Parameter					Preservative Key	
Weston Solutions		02056 014-040-0030		7	7	7	7	7				
Project Name		Lab Project #		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TOC/SP/ Metals	pH	Comments	
IDOT 040-IL Route 113												
Project Location/State		Lab PM										
Bradwood, IL		D. Wright										
Sampler		Lab PM										
M. Doherty Skubic		D. Wright										
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TOC/SP/ Metals	pH	Comments
			Date	Time								
1		AL44-2(0-1)-030816	3-8-16	0850	2	S	X	X	X	X	X	
2		AL44-3(0-1)-030816		0910								
3		R46-1(0-1)-030816		0917								
4		R46-2(0-1)-030816		0938								
5		R46-3(0-1)-030816		0947								
6		R47-1(0-1)-030816		1000								
7		AB49-1(0-1)-030816		1010								
8		WLS1-1(0-1)-030816		1020								
9		F53-1(0-1)-030816		1035								
10		F53-2(0-1)-030816	3-8-16	1045	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Pls Contact 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>omj</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>NO</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: S. Bahns-Kumar  
 Company: Weston Solutions Inc  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

Bill To (optional)  
 Contact: SAME  
 Company:  
 Address:  
 Address:  
 Phone:  
 Fax:  
 PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-108492  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Date		Time		# of Containers			
Project Location/State		Lab PM		Date		Time		# of Containers			
Sampler		Lab PM		Date		Time		# of Containers			
Weston Solutions		02056.014.040.0230		7	7	7	7	7			
1 DOT 040-IL Rte 113											
Braidwood, IL		D. Wright									
M. Doherty-Skibic		D. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TOXIC Metals	PH
11		FS3-2(0-1)-030816D	3-8-16	1045	2	S	X	X	X	X	X
12		WLS7-1(0-1)-030816		1105							
13		WLS7-2(0-1)-030816		1117							
14		WLS7-3(0-1)-030816		1127							
15		WLS7-4(0-1)-030816		1139							
16		R63-1(0-1)-030816		1220							
17		R66-1(0-1)-030816		1237							
18		R66-2(0-1)-030816		1250							
19		AL67-1(0-1)-030816		1317							
20		AL67-2(0-1)-030816	3-8-16	1342	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days Recontact Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Doherty-Skibic</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]  
 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: