



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):
21608 W. IL 113 and 35214 & 35231 S. Grant Ave. (ISGS Site No. 2948-60)

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: 41.245532444 Longitude: -88.130653241
(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

Project Name: FAU 327: Illinois Route 113

Latitude: 41.245532444 Longitude: -88.130653241

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 R60-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-60. 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: 500-108761-1.
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:

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. 2948-60
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	R60-1(0-1)-031416	R60-1(0-1)-031416D	Soil Reference Concentrations
Sample Date	3/14/2016	3/14/2016	
Location ID	R60-1	R60-1	
Depth	0 - 1	0 - 1	
Location Code	2948-60	2948-60	
Parameter			
Laboratory pH	8.02	8.04	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)	None Detected		
Total Metals (mg/kg)			
Arsenic, Total	1.5 J	3.5 J	11.3 / 13
Barium, Total	28 J-	28 J-	1500
Beryllium, Total	0.22 J-	0.22 J-	22
Cadmium, Total	0.07 J	0.039 J	5.2
Calcium, Total	2000 J	3300 J	---
Chromium, Total	4.7 J-	4.7 J-	21
Iron, Total	6000 J	6500 J	15000 / 15900
Lead, Total	17 J+	13 J+	107
Manganese, Total	150 J	170 J	630 / 636
Mercury, Total	0.025	0.032	0.89
Nickel, Total	3.8	4.3	100
Potassium, Total	290 J	320 J	---
Selenium, Total	ND	0.31 J	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	22 J	22 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.091 J	0.088 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	0.45	0.78	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.31	0.23	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	0.037 J	0.032 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.2 J	0.11 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.012 J	0.017 J	0.1
Iron, SPLP	8.5 J	17 J	5
Lead, SPLP	0.023	0.037	0.0075
Manganese, SPLP	0.11 J	0.24 J	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	0.9 B	5

Summary Table of ISGS Site No. 2948-60
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.

^A - 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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: R60-1(0-1)-031416

Lab Sample ID: 500-108761-9

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 18:41	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/16/16 18:41	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:41	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:41	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 18:41	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 18:41	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:41	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 18:41	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 18:41	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:41	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 18:41	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 18:41	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:41	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 18:41	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 18:41	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 18:41	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 18:41	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:41	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 18:41	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:41	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 18:41	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:41	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 18:41	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 18:41	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:41	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/16/16 18:41	1
Dibromofluoromethane	111		75 - 120		03/16/16 18:41	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/16/16 18:41	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 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	<190		190	40	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	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: R60-1(0-1)-031416

Lab Sample ID: 500-108761-9

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼	03/17/16 07:08	03/23/16 23:21	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Carbazole	<190		190	93	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Chrysene	<37		37	10	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Fluoranthene	8.5 J		37	6.9	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	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: R60-1(0-1)-031416

Lab Sample ID: 500-108761-9

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

Percent Solids: 87.4

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	9.7	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Isophorone	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Phenanthrene	7.2	J	37	5.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Phenol	<190		190	83	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Pyrene	9.3	J	37	7.4	ug/Kg	☼	03/17/16 07:08	03/23/16 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137				03/17/16 07:08	03/23/16 23:21	1
2-Fluorobiphenyl	86		25 - 119				03/17/16 07:08	03/23/16 23:21	1
2-Fluorophenol	99		25 - 110				03/17/16 07:08	03/23/16 23:21	1
Nitrobenzene-d5	82		25 - 115				03/17/16 07:08	03/23/16 23:21	1
Phenol-d5	68		31 - 110				03/17/16 07:08	03/23/16 23:21	1
Terphenyl-d14	90		36 - 134				03/17/16 07:08	03/23/16 23:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Barium	0.091	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Iron	0.45		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:55	1
Manganese	0.31		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:55	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:55	1
Zinc	0.037	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:55	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 14:49	03/25/16 01:12	1
Barium	0.20	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:50	1
Chromium	0.012	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:50	1
Copper	0.022	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:12	1
Iron	8.5		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:12	1
Lead	0.023		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:50	1
Manganese	0.11		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:12	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: R60-1(0-1)-031416

Lab Sample ID: 500-108761-9

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 01:12	1
Zinc	0.62	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:12	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 06:14	1
Arsenic	1.5		0.55	0.25	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Barium	28		0.55	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Beryllium	0.22		0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Cadmium	0.070	J	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Calcium	2000	B	11	3.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Chromium	4.7		0.55	0.095	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Cobalt	2.1		0.28	0.062	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Copper	2.9		0.55	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Iron	6000		11	4.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Lead	17		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Magnesium	1100	B ^	5.5	2.2	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Manganese	150		0.55	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Nickel	3.8		0.55	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Potassium	290		28	4.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Sodium	86	B	55	7.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Vanadium	8.0		0.28	0.080	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	1
Zinc	22		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 06:14	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		03/23/16 09:00	03/23/16 17:42	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		03/23/16 17:00	03/24/16 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		19	9.8	ug/Kg	☼	03/21/16 15:30	03/22/16 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			03/17/16 13:39	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: R60-1(0-1)-031416D

Lab Sample ID: 500-108761-10

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 19:05	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 19:05	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/16/16 19:05	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 19:05	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 19:05	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 19:05	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 19:05	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 19:05	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 19:05	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 19:05	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 19:05	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 19:05	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 19:05	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 19:05	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 19:05	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 19:05	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 19:05	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 19:05	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 19:05	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 19:05	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 19:05	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 19:05	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 19:05	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 19:05	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 19:05	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/16/16 19:05	1
Dibromofluoromethane	108		75 - 120		03/16/16 19:05	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 19:05	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	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: R60-1(0-1)-031416D

Lab Sample ID: 500-108761-10

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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	<380		380	87	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Carbazole	<190		190	95	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Chrysene	<38		38	10	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Fluoranthene	8.2 J		38	7.0	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	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: R60-1(0-1)-031416D

Lab Sample ID: 500-108761-10

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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	<38		38	9.8	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Phenanthrene	11	J	38	5.3	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Phenol	<190		190	84	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1
Pyrene	7.8	J	38	7.5	ug/Kg	☼	03/17/16 07:08	03/23/16 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137	03/17/16 07:08	03/23/16 23:50	1
2-Fluorobiphenyl	86		25 - 119	03/17/16 07:08	03/23/16 23:50	1
2-Fluorophenol	99		25 - 110	03/17/16 07:08	03/23/16 23:50	1
Nitrobenzene-d5	79		25 - 115	03/17/16 07:08	03/23/16 23:50	1
Phenol-d5	69		31 - 110	03/17/16 07:08	03/23/16 23:50	1
Terphenyl-d14	90		36 - 134	03/17/16 07:08	03/23/16 23:50	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 14:26	03/24/16 21:00	1
Barium	0.088	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 21:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 21:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Iron	0.78		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 21:00	1
Manganese	0.23		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 21:00	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 21:00	1
Zinc	0.032	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 21:00	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 14:49	03/25/16 01:17	1
Barium	0.11	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:54	1
Chromium	0.017	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:54	1
Copper	0.011	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:17	1
Iron	17		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:17	1
Lead	0.037		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:54	1
Manganese	0.24		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:17	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: R60-1(0-1)-031416D

Lab Sample ID: 500-108761-10

Date Collected: 03/14/16 11:45

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 01:17	1
Zinc	0.90	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:17	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 06:18	1
Arsenic	3.5		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Barium	28		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Beryllium	0.22		0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Cadmium	0.039	J	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Calcium	3300	B	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Chromium	4.7		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Cobalt	2.8		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Copper	3.0		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Iron	6500		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Lead	13		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Magnesium	1700	B ^	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Manganese	170		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Nickel	4.3		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Potassium	320		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Selenium	0.31	J	0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Sodium	81	B	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Vanadium	7.8		0.28	0.081	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	1
Zinc	22		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 06:18	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 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 17:00	03/24/16 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	32		17	9.0	ug/Kg	☼	03/21/16 15:30	03/22/16 23:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			03/17/16 13:44	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

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2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-108761 COC

Report To (optional)
Contact: S. Babunghuman
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 1 of 4
Temperature °C of Cooler: 2.3, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH
Project Location/State		Lab PM		Date	Time							
T. Weston												
IDOT-040												
Bridgeway Center Park		D. Wright										
T. Wells												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH	Comments
1		R70-4(0-1)-031416	3-14-16	1005	2 S		X	X	X	X	X	
2		R70-5(0-1)-031416		1020								
3		R70-6(0-1)-031416		1030								
4		R70-7(0-1)-031416		1040								
5		WL68-1(0-1)-031416		1050								
6		WL68-2(0-1)-031416		1100								
7		R66-3(0-1)-031416		1110								
8		R63-2(0-1)-031416		1125								
9		R60-1(0-1)-031416		1145								
10		R60-1(0-1)-031416D	3-14-16	1145	2 S		X	X	X	X	X	

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

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
 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>Zanick</u>	Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>16:45</u>	Received By <u>Daniel Bedan</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>16:45</u>
Relinquished By <u>Daniel Bedan</u>	Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Shawn Scott</u>	Company <u>TA-CAT</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:



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):

21520-21542 W. IL 113 (ISGS Site No. 2948-63)

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: 41.244535075 Longitude: -88.129009267
(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: 41.244535075 Longitude: -88.129009267

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 R63-1 AND R63-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-63. 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 and 500-108761-1.
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. 2948-63
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	R63-1(0-1)-030816	R63-2(0-1)-031416	Soil Reference Concentrations
Sample Date	3/8/2016	3/14/2016	
Location ID	R63-1	R63-2	
Depth	0 - 1	0 - 1	
Location Code	2948-63	2948-63	
Parameter			
Laboratory pH	6.95	7.4	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	8 J	50	900 / 1100 / 1800
Benzo(a)pyrene	8 J	42	90 / 1300 / 2100
Benzo(b)fluoranthene	22 J	62	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	19 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	2.5 J	3.3 J-	11.3 / 13
Barium, Total	26	36 J-	1500
Beryllium, Total	0.21	0.46 J-	22
Cadmium, Total	0.17 J-	0.49 J-	5.2
Calcium, Total	3300 J	6000 J	---
Chromium, Total	6.7 J	5.1 J-	21
Iron, Total	6500 J+	6900 J	15000 / 15900
Lead, Total	8.7 J	45 J+	107
Manganese, Total	200 J	200 J	630 / 636
Mercury, Total	0.021	0.018	0.89
Nickel, Total	5.5 J+	5.8	100
Potassium, Total	360 J	400 J	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	47	89 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.24 J	0.2 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0028 J	0.0032 J	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.53	0.39	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	0.25 J	0.33 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.07 J	0.18 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.015 J	0.01 J	0.1
Iron, SPLP	15 J-	6.9 J+	5
Lead, SPLP	0.014	0.075	0.0075
Manganese, SPLP	0.19	0.26	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.012 J	ND	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.28 J	0.68 B	5

Summary Table of ISGS Site No. 2948-63
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.

^A - 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

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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:
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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: 500-108492-1

Client Sample ID: R63-1(0-1)-030816

Lab Sample ID: 500-108492-16

Date Collected: 03/08/16 12:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 12:52	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 12:52	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/10/16 12:52	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 12:52	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 12:52	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 12:52	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/10/16 12:52	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 12:52	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/10/16 12:52	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 12:52	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 12:52	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 12:52	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 12:52	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 12:52	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 12:52	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 12:52	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/10/16 12:52	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 12:52	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/10/16 12:52	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 12:52	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 12:52	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 12:52	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 12:52	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 12:52	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 12:52	1
Dibromofluoromethane	108		75 - 120		03/10/16 12:52	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/10/16 12:52	1
Toluene-d8 (Surr)	106		75 - 122		03/10/16 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	☼	03/10/16 07:16	03/15/16 06:07	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	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: R63-1(0-1)-030816

Lab Sample ID: 500-108492-16

Date Collected: 03/08/16 12:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	<360		360	83	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Benzo[a]anthracene	8.0	J *	36	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Benzo[a]pyrene	8.0	J *	36	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Benzo[b]fluoranthene	22	J *	36	7.9	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Carbazole	<180		180	91	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Chrysene	<36 *		36	10	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Fluoranthene	21	J	36	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	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: R63-1(0-1)-030816

Lab Sample ID: 500-108492-16

Date Collected: 03/08/16 12:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	<36	*	36	9.5	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Phenanthrene	35	J	36	5.1	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Pyrene	31	J *	36	7.3	ug/Kg	☼	03/10/16 07:16	03/15/16 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	36		35 - 137				03/10/16 07:16	03/15/16 06:07	1
2-Fluorobiphenyl	91		25 - 119				03/10/16 07:16	03/15/16 06:07	1
2-Fluorophenol	104		25 - 110				03/10/16 07:16	03/15/16 06:07	1
Nitrobenzene-d5	86		25 - 115				03/10/16 07:16	03/15/16 06:07	1
Phenol-d5	67		31 - 110				03/10/16 07:16	03/15/16 06:07	1
Terphenyl-d14	191	X *	36 - 134				03/10/16 07:16	03/15/16 06:07	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		03/13/16 15:00	03/15/16 01:06	1
Barium	0.24	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 01:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 01:06	1
Cadmium	0.0028	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 01:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 01:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 01:06	1
Manganese	0.53		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 01:06	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:06	1
Zinc	0.25	J B	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 01:06	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		03/13/16 15:00	03/14/16 21:30	1
Barium	0.070	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 21:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 21:30	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 21:30	1
Chromium	0.015	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:30	1
Copper	0.011	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:30	1
Iron	15		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 21:30	1
Lead	0.014		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 21:30	1
Manganese	0.19		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:30	1
Nickel	0.012	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 21:30	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: R63-1(0-1)-030816

Lab Sample ID: 500-108492-16

Date Collected: 03/08/16 12:20

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/14/16 21:30	1
Zinc	0.28	J	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 21:30	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	☼	03/14/16 09:24	03/14/16 20:19	1
Arsenic	2.5		0.49	0.23	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Barium	26		0.49	0.090	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Beryllium	0.21		0.20	0.042	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Cadmium	0.17		0.098	0.028	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Calcium	3300	B	9.8	3.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Chromium	6.7	B	2.5	0.084	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Cobalt	2.8		0.25	0.055	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Copper	4.4		0.49	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Iron	6500	B	9.8	3.8	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Lead	8.7		0.25	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Magnesium	2100	B	4.9	2.0	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Manganese	200		0.49	0.097	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Nickel	5.5	B	0.49	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Potassium	360		25	4.0	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Silver	<0.25		0.25	0.057	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Sodium	160		49	6.5	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Vanadium	11		0.25	0.072	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	1
Zinc	47		0.98	0.31	mg/Kg	☼	03/14/16 09:24	03/14/16 20:19	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		03/13/16 18:00	03/15/16 13:39	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		03/13/16 18:00	03/15/16 14:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		18	9.2	ug/Kg	☼	03/15/16 16:45	03/16/16 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.95		0.200	0.200	SU			03/10/16 14:12	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 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		Sampler		Date		Time		# of Containers			
MS/MSD		Sample ID		Date		Time		# of Containers			
Weston Solutions		02056.014.040.0230		7		7		7		Comments	
1 DOT 040-IL Rte 113				7		7		7			
Braidwood, IL		M. Doherty-Skibic		7		7		7			
D. Wright				7		7		7			
VOCs				7		7		7			
SVOCs				7		7		7			
TOTAL Metals				7		7		7			
TOXIC Metals				7		7		7			
PH				7		7		7			
11	FS3-2(0-1)-030816D	3-8-16	1045	2	S	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		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Re-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>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
 - 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: 500-108761-1
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

LINKS

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results through
TotalAccess

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Visit us at:
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: R63-2(0-1)-031416

Lab Sample ID: 500-108761-8

Date Collected: 03/14/16 11:25

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 18:16	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:16	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/16/16 18:16	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:16	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:16	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 18:16	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 18:16	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:16	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 18:16	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 18:16	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 18:16	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 18:16	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 18:16	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 18:16	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 18:16	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 18:16	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:16	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 18:16	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 18:16	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 18:16	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 18:16	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 18:16	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 18:16	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 18:16	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 18:16	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 18:16	1
Dibromofluoromethane	111		75 - 120		03/16/16 18:16	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 18:16	1
Toluene-d8 (Surr)	117		75 - 122		03/16/16 18:16	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	☼	03/17/16 07:08	03/25/16 07:11	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	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: R63-2(0-1)-031416

Lab Sample ID: 500-108761-8

Date Collected: 03/14/16 11:25

Matrix: Solid

Date Received: 03/14/16 17:25

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	<360		360	83	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Methylnaphthalene	30	J	36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Acenaphthylene	6.0	J	36	4.8	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Anthracene	14	J	36	6.1	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Benzo[a]anthracene	50		36	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Benzo[a]pyrene	42		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Benzo[b]fluoranthene	62		36	7.8	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Benzo[g,h,i]perylene	26	J	36	12	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Benzo[k]fluoranthene	16	J	36	11	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Carbazole	<180		180	91	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Chrysene	120		36	9.9	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Fluoranthene	110		36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Fluorene	6.4	J	36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	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: R63-2(0-1)-031416

Lab Sample ID: 500-108761-8

Date Collected: 03/14/16 11:25

Matrix: Solid

Date Received: 03/14/16 17:25

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	19	J	36	9.4	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Naphthalene	18	J	36	5.6	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Phenanthrene	190		36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Pyrene	100		36	7.2	ug/Kg	☼	03/17/16 07:08	03/25/16 07:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				03/17/16 07:08	03/25/16 07:11	1
2-Fluorobiphenyl	98		25 - 119				03/17/16 07:08	03/25/16 07:11	1
2-Fluorophenol	83		25 - 110				03/17/16 07:08	03/25/16 07:11	1
Nitrobenzene-d5	79		25 - 115				03/17/16 07:08	03/25/16 07:11	1
Phenol-d5	41		31 - 110				03/17/16 07:08	03/25/16 07:11	1
Terphenyl-d14	107		36 - 134				03/17/16 07:08	03/25/16 07:11	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 14:26	03/24/16 20:50	1
Barium	0.20	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:50	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:50	1
Manganese	0.39		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:50	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:50	1
Zinc	0.33	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:50	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 14:49	03/25/16 01:01	1
Barium	0.18	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 01:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:37	1
Chromium	0.010	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:37	1
Copper	0.017	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:01	1
Iron	6.9		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 01:01	1
Lead	0.075		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:37	1
Manganese	0.26		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 01:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 01:01	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: R63-2(0-1)-031416

Lab Sample ID: 500-108761-8

Date Collected: 03/14/16 11:25

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 01:01	1
Zinc	0.68	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 01:01	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	☼	03/17/16 14:03	03/25/16 06:02	1
Arsenic	3.3		0.57	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Barium	36		0.57	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Beryllium	0.46		0.23	0.049	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Cadmium	0.49		0.11	0.033	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Calcium	6000	B	11	3.7	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Chromium	5.1		0.57	0.098	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Cobalt	2.1		0.28	0.064	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Copper	8.5		0.57	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Iron	6900		11	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Lead	45		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Magnesium	3000	B ^	5.7	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Manganese	200		0.57	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Nickel	5.8		0.57	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Potassium	400		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Sodium	260	B	57	7.5	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Vanadium	8.0		0.28	0.083	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1
Zinc	89		1.1	0.36	mg/Kg	☼	03/17/16 14:03	03/25/16 06:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 17:41	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 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	9.7	ug/Kg	☼	03/21/16 15:30	03/22/16 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			03/17/16 13:33	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

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-108761 COC

Report To (optional)
Contact: S. Babunghuman
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 1 of 4
Temperature °C of Cooler: 2.3, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH
Project Location/State		Lab PM		Date	Time							
T. Weston												
IDOT-040												
Bridgeway Center Park		D. Wright										
T. Wells												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH	Comments
1		R70-4(0-1)-031416	3-14-16	1005	2 S		X	X	X	X	X	
2		R70-5(0-1)-031416		1020								
3		R70-6(0-1)-031416		1030								
4		R70-7(0-1)-031416		1040								
5		WL68-1(0-1)-031416		1050								
6		WL68-2(0-1)-031416		1100								
7		R66-3(0-1)-031416		1110								
8		R63-2(0-1)-031416		1125								
9		R60-1(0-1)-031416		1145								
10		R60-1(0-1)-031416D	3-14-16	1145	2 S		X	X	X	X	X	

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

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
 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>Zanick</u> Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>16:45</u>	Received By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>16:45</u>
Relinquished By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Shawn Scott</u> Company <u>TA-CAT</u>	Date <u>3/15/16</u>	Time <u>0725</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key

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

Client Comments: _____
Lab Comments: _____



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

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

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

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

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

I. Source Location Information

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

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

Physical Site Location (address, including number and street):
21400-21466 W. IL 113 and 35315 S. Garfield Street, (ISGS Site No. 2948-66)

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: 41.243418129 Longitude: -88.126355885
(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: 41.243418129 Longitude: -88.126355885Uncontaminated 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 R66-1 THROUGH R66-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-66. 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 AND 500-108761.
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 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. 2948-66
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	R66-1(0-1)-030816	R66-2(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	
Location ID	R66-1	R66-2	
Depth	0 - 1	0 - 1	
Location Code	2948-66	2948-66	
Parameter			
Laboratory pH	7.82	8.66	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	26 J	37	900 / 1100 / 1800
Benzo(a)pyrene	37 J	47	90 / 1300 / 2100
Benzo(b)fluoranthene	65 J	78	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	24 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	3.5 J	4 J	11.3 / 13
Barium, Total	24	47	1500
Beryllium, Total	0.34	0.32	22
Cadmium, Total	0.26 J-	0.14 J-	5.2
Calcium, Total	71000 J	16000 J	---
Chromium, Total	12 J	9.3 J	21
Iron, Total	8900 J+	9600 J+	15000 / 15900
Lead, Total	60 J	18 J	107
Manganese, Total	220 J	450 J	630 / 636
Mercury, Total	0.022	0.036	0.89
Nickel, Total	8 J+	9.5 J+	100
Potassium, Total	600 J	670 J	---
Selenium, Total	0.38 J	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	49	39	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.29 J	0.27 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	1.3	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
SPLP Metals (mg/l)			
Arsenic, SPLP	0.011 J	0.026 J	0.05
Barium, SPLP	0.14 J	0.39 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.038	0.079	0.1
Iron, SPLP	41 J-	86 J-	5
Lead, SPLP	0.096	0.11	0.0075
Manganese, SPLP	0.3	1.4	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.023 J	0.06	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.2 J	0.55	5

Summary Table of ISGS Site No. 2948-66
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.

^A - 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

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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

LINKS

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

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

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

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Client Sample Results

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

TestAmerica Job ID: 500-108492-1

Client Sample ID: R66-1(0-1)-030816

Lab Sample ID: 500-108492-17

Date Collected: 03/08/16 12:37

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 13:19	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/10/16 13:19	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:19	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:19	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 13:19	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 13:19	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:19	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/10/16 13:19	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/10/16 13:19	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:19	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 13:19	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 13:19	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:19	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 13:19	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 13:19	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 13:19	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/10/16 13:19	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:19	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 13:19	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:19	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 13:19	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 13:19	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 13:19	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:19	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/10/16 13:19	1
Dibromofluoromethane	108		75 - 120		03/10/16 13:19	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/10/16 13:19	1
Toluene-d8 (Surr)	107		75 - 122		03/10/16 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108492-1

Client Sample ID: R66-1(0-1)-030816

Lab Sample ID: 500-108492-17

Date Collected: 03/08/16 12:37

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 88.3

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	☼	03/10/16 07:16	03/15/16 06:35	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Methylnaphthalene	30	J	37	6.9	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Acenaphthylene	10	J	37	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Anthracene	10	J	37	6.2	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Benzo[a]anthracene	26	J *	37	5.0	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Benzo[a]pyrene	37	*	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Benzo[b]fluoranthene	65	*	37	8.0	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Benzo[g,h,i]perylene	36	J *	37	12	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Benzo[k]fluoranthene	22	J *	37	11	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Chrysene	45	*	37	10	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Fluoranthene	39		37	6.9	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108492-1

Client Sample ID: R66-1(0-1)-030816

Lab Sample ID: 500-108492-17

Date Collected: 03/08/16 12:37

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 88.3

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	☼	03/10/16 07:16	03/15/16 06:35	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Naphthalene	15	J	37	5.7	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Phenanthrene	44		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Phenol	<190		190	83	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Pyrene	110	*	37	7.4	ug/Kg	☼	03/10/16 07:16	03/15/16 06:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/10/16 07:16	03/15/16 06:35	1
2-Fluorobiphenyl	88		25 - 119				03/10/16 07:16	03/15/16 06:35	1
2-Fluorophenol	96		25 - 110				03/10/16 07:16	03/15/16 06:35	1
Nitrobenzene-d5	80		25 - 115				03/10/16 07:16	03/15/16 06:35	1
Phenol-d5	84		31 - 110				03/10/16 07:16	03/15/16 06:35	1
Terphenyl-d14	206	X *	36 - 134				03/10/16 07:16	03/15/16 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		03/13/16 15:00	03/15/16 01:13	1
Barium	0.29	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 01:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 01:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 01:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 01:13	1
Manganese	1.2		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 01:13	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:13	1
Zinc	0.070	J B	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Barium	0.14	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 21:36	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 21:36	1
Chromium	0.038		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Copper	0.026		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Iron	41		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 21:36	1
Lead	0.096		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 21:36	1
Manganese	0.30		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Nickel	0.023	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 21:36	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: R66-1(0-1)-030816

Lab Sample ID: 500-108492-17

Date Collected: 03/08/16 12:37

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 88.3

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 21:36	1
Zinc	0.20	J	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 21:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.0	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Arsenic	3.5		0.52	0.24	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Barium	24		0.52	0.096	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Beryllium	0.34		0.21	0.045	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Cadmium	0.26		0.10	0.030	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Calcium	71000	B	100	34	mg/Kg	☼	03/14/16 09:24	03/16/16 07:25	10
Chromium	12	B	2.6	0.090	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Cobalt	4.1		0.26	0.059	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Copper	6.2		0.52	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Iron	8900	B	10	4.0	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Lead	60		0.26	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Magnesium	31000	B	5.2	2.1	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Manganese	220		0.52	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Nickel	8.0	B	0.52	0.14	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Potassium	600		26	4.3	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Selenium	0.38	J	0.52	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Sodium	220		52	6.9	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Vanadium	12		0.26	0.076	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	1
Zinc	49		1.0	0.33	mg/Kg	☼	03/14/16 09:24	03/14/16 20:23	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		03/13/16 18:00	03/15/16 13:41	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		03/13/16 18:00	03/15/16 14:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		17	8.8	ug/Kg	☼	03/15/16 16:45	03/16/16 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			03/10/16 14:15	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: R66-2(0-1)-030816

Lab Sample ID: 500-108492-18

Date Collected: 03/08/16 12:50

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 13:44	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/10/16 13:44	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:44	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:44	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 13:44	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 13:44	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:44	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 13:44	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 13:44	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 13:44	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 13:44	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 13:44	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:44	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 13:44	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 13:44	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 13:44	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 13:44	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 13:44	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 13:44	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:44	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 13:44	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 13:44	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 13:44	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 13:44	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 13:44	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 13:44	1
Dibromofluoromethane	110		75 - 120		03/10/16 13:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/10/16 13:44	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 13:44	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	☼	03/10/16 07:16	03/12/16 12:45	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	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: R66-2(0-1)-030816

Lab Sample ID: 500-108492-18

Date Collected: 03/08/16 12:50

Matrix: Solid

Date Received: 03/08/16 16:45

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	<360		360	83	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Acenaphthylene	4.9 J		36	4.8	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Benzo[a]anthracene	37		36	4.9	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Benzo[a]pyrene	47		36	7.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Benzo[b]fluoranthene	78		36	7.9	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Benzo[g,h,i]perylene	20 J		36	12	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Benzo[k]fluoranthene	30 J		36	11	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Carbazole	<180		180	91	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Chrysene	43		36	10	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Fluoranthene	66		36	6.8	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	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: R66-2(0-1)-030816

Lab Sample ID: 500-108492-18

Date Collected: 03/08/16 12:50

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 87.4

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	24	J	36	9.5	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Phenanthrene	18	J	36	5.1	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Pyrene	62		36	7.3	ug/Kg	☼	03/10/16 07:16	03/12/16 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137				03/10/16 07:16	03/12/16 12:45	1
2-Fluorobiphenyl	91		25 - 119				03/10/16 07:16	03/12/16 12:45	1
2-Fluorophenol	91		25 - 110				03/10/16 07:16	03/12/16 12:45	1
Nitrobenzene-d5	76		25 - 115				03/10/16 07:16	03/12/16 12:45	1
Phenol-d5	72		31 - 110				03/10/16 07:16	03/12/16 12:45	1
Terphenyl-d14	94		36 - 134				03/10/16 07:16	03/12/16 12:45	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		03/13/16 15:00	03/15/16 01:20	1
Barium	0.27	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 01:20	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 01:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 01:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 01:20	1
Manganese	1.3		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 01:20	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:20	1
Zinc	0.029	J B	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Barium	0.39	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 21:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 21:43	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 21:43	1
Chromium	0.079		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Copper	0.054		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Iron	86		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 21:43	1
Lead	0.11		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 21:43	1
Manganese	1.4		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Nickel	0.060		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 21:43	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: R66-2(0-1)-030816

Lab Sample ID: 500-108492-18

Date Collected: 03/08/16 12:50

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/14/16 21:43	1
Zinc	0.55		0.50	0.020	mg/L		03/13/16 15:00	03/14/16 21:43	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.1	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Arsenic	4.0		0.54	0.25	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Barium	47		0.54	0.099	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Beryllium	0.32		0.22	0.047	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Cadmium	0.14		0.11	0.031	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Calcium	16000	B	11	3.5	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Chromium	9.3	B	2.7	0.093	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Cobalt	4.8		0.27	0.061	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Copper	6.8		0.54	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Iron	9600	B	11	4.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Lead	18		0.27	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Magnesium	11000	B	5.4	2.2	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Manganese	450		0.54	0.11	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Nickel	9.5	B	0.54	0.15	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Potassium	670		27	4.4	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Sodium	670		54	7.1	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Vanadium	14		0.27	0.079	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	1
Zinc	39		1.1	0.34	mg/Kg	☼	03/14/16 09:24	03/14/16 20:28	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		03/13/16 18:00	03/15/16 13:43	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		03/13/16 18:00	03/15/16 15:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		17	9.0	ug/Kg	☼	03/15/16 16:45	03/16/16 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU			03/10/16 14:17	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		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		Project Location/State		Parameter		VOCs		SVOCs		Total Metals		TOC/SP/ Metals		PH		
Lab ID		Sample ID		Sampling		# of Containers		Matrix								
				Date		Time										
Weston Solutions		02056 014-040-0030														Comments
IDOT 040-IL Route 113		Bradwood, IL														
M. Doherty Skubic		D. Wright														
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 #		S		VOCs		SNOGS			
Project Location/State		Lab PM		S		TOTAL Metals		TOURISTP Metals			
Sampler		Date		S		PH					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				Comments	
11		F53-2(0-1)-030816D	3-8-16	1045	2	S	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	

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Re-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>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:

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

LINKS

Review your project
results through
TotalAccess

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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: R66-3(0-1)-031416

Lab Sample ID: 500-108761-7

Date Collected: 03/14/16 11:10

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 17:52	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 17:52	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:52	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:52	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 17:52	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:52	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:52	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 17:52	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 17:52	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:52	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:52	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:52	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:52	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 17:52	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 17:52	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:52	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 17:52	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:52	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:52	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:52	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:52	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:52	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:52	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:52	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:52	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 17:52	1
Dibromofluoromethane	111		75 - 120		03/16/16 17:52	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/16/16 17:52	1
Toluene-d8 (Surr)	115		75 - 122		03/16/16 17:52	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	41	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	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: R66-3(0-1)-031416

Lab Sample ID: 500-108761-7

Date Collected: 03/14/16 11:10

Matrix: Solid

Date Received: 03/14/16 17:25

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	<380		380	86	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Methylnaphthalene	43		38	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Acenaphthene	18 J		38	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Acenaphthylene	110		38	5.0	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Anthracene	54		38	6.3	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Benzo[a]anthracene	270 *		38	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Benzo[a]pyrene	410 *		38	7.3	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Benzo[b]fluoranthene	740 *		38	8.2	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Benzo[g,h,i]perylene	200 *		38	12	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Benzo[k]fluoranthene	280 *		38	11	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Bis(2-ethylhexyl) phthalate	<190 *		190	69	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Butyl benzyl phthalate	<190 *		190	72	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Carbazole	<190		190	95	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Chrysene	310 *		38	10	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Dibenz(a,h)anthracene	43 *		38	7.3	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Fluoranthene	440		38	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Fluorene	23 J		38	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	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: R66-3(0-1)-031416

Lab Sample ID: 500-108761-7

Date Collected: 03/14/16 11:10

Matrix: Solid

Date Received: 03/14/16 17:25

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	230	*	38	9.8	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Naphthalene	30	J	38	5.8	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Phenanthrene	200		38	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Phenol	<190		190	84	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Pyrene	700	*	38	7.5	ug/Kg	☼	03/17/16 07:08	03/24/16 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		35 - 137				03/17/16 07:08	03/24/16 05:06	1
2-Fluorobiphenyl	99		25 - 119				03/17/16 07:08	03/24/16 05:06	1
2-Fluorophenol	110		25 - 110				03/17/16 07:08	03/24/16 05:06	1
Nitrobenzene-d5	90		25 - 115				03/17/16 07:08	03/24/16 05:06	1
Phenol-d5	67		31 - 110				03/17/16 07:08	03/24/16 05:06	1
Terphenyl-d14	181	X*	36 - 134				03/17/16 07:08	03/24/16 05:06	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 14:26	03/24/16 20:45	1
Barium	0.19	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:45	1
Manganese	0.19		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:45	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:45	1
Zinc	0.047	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		03/23/16 14:49	03/25/16 00:57	1
Barium	0.19	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:33	1
Chromium	0.042		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:57	1
Cobalt	0.013	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:33	1
Copper	0.032		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:57	1
Iron	44		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:57	1
Lead	0.21		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:33	1
Manganese	0.76		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:57	1
Nickel	0.031		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:57	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: R66-3(0-1)-031416

Lab Sample ID: 500-108761-7

Date Collected: 03/14/16 11:10

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 00:57	1
Zinc	0.63	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:57	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	☼	03/17/16 14:03	03/25/16 05:57	1
Arsenic	2.9		0.57	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Barium	31		0.57	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Beryllium	0.34		0.23	0.049	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Calcium	52000	B	110	37	mg/Kg	☼	03/17/16 14:03	03/25/16 22:18	10
Chromium	5.2		0.57	0.098	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Cobalt	3.1		0.28	0.064	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Copper	6.9		0.57	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Iron	7600		11	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Lead	46		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Magnesium	22000	B ^	5.7	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Manganese	280		0.57	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Nickel	6.3		0.57	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Potassium	490		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Selenium	0.44	J	0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Sodium	660	B	57	7.5	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Vanadium	8.5		0.28	0.083	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	1
Zinc	47		1.1	0.36	mg/Kg	☼	03/17/16 14:03	03/25/16 05:57	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		03/23/16 09:00	03/23/16 17:39	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 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		16	8.6	ug/Kg	☼	03/21/16 15:30	03/22/16 23:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			03/17/16 13:28	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

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-108761 COC

Report To (optional)
Contact: S. Babunghuman
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 1 of 4
Temperature °C of Cooler: 2.3, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TCAP/SPUD Metals	PH
1		R70-4(0-1)-031416	3-14-16	1005	2 S		X	X	X	X	X
2		R70-5(0-1)-031416		1020							
3		R70-6(0-1)-031416		1030							
4		R70-7(0-1)-031416		1040							
5		WL68-1(0-1)-031416		1050							
6		WL68-2(0-1)-031416		1100							
7		R66-3(0-1)-031416		1110							
8		R63-2(0-1)-031416		1125							
9		R60-1(0-1)-031416		1145							
10		R60-1(0-1)-031416D	3-14-16	1145	2 S		X	X	X	X	X

- 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>Zanick</u> Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>16:45</u>	Received By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>16:45</u>
Relinquished By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Shawn Scott</u> Company <u>TA-CAT</u>	Date <u>3/15/16</u>	Time <u>0725</u>

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

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

Client Comments: _____
Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
 Contact: S. Babusukumar
 Company: Weston
 Address: _____
 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 #		# of Containers		Matrix												Comments	
<u>INDOT-040</u>																			
Project Location/State		Lab PM		Date		Time													
<u>Bridgeland Center Park / IL</u>		<u>D. Wright</u>																	
Sampler		Sampling																	
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SUNs	Total Metals	TRP/SBP Metals	PFI								
<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>
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>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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):
21300-21400 blocks of W. IL 113, (ISGS Site No. 2948-67)

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: 41.242793043 Longitude: -88.124283149
(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: 41.242793043 Longitude: -88.124283149

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 AL67-2 AND AL67-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-67. SEE FIGURES 3-9/3-10 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: 500-108491-1 AND 500-108492-1. ALSO SEE FIGURES 4-9 AND 4-10 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. 2948-67
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	AL67-2(0-1)-030816	AL67-3(0-1)-030816	AL67-3(0-1)-030816D	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL67-2	AL67-3	AL67-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-67	2948-67	2948-67	
Parameter				
Laboratory pH	7.7	8.22	8.17	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)anthracene	53 J	27 J	17 J	900 / 1100 / 1800
Benzo(a)pyrene	91 J	36 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	140 J	62 J	42 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	43 J	19 J	ND	900 / 900 / 1600
Total Metals (mg/kg)				
Arsenic, Total	2.8 J	2.8	3.7	11.3 / 13
Barium, Total	29	24	23	1500
Beryllium, Total	0.22	0.31	0.28	22
Cadmium, Total	0.081 J	0.12	0.052 J	5.2
Calcium, Total	9300 J	11000 J-	8700 J-	---
Chromium, Total	7.4 J	7.1 B	8.1 B	21
Iron, Total	8400 J+	6700 J+	7800 J+	15000 / 15900
Lead, Total	22 J	21 J-	15 J-	107
Manganese, Total	270 J	190 J-	180 J-	630 / 636
Mercury, Total	0.018	0.028	0.011 J	0.89
Nickel, Total	8.6 J+	7.1	7.3	100
Potassium, Total	510 J	450 J+	490 J+	---
Selenium, Total	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	28	27	27	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.25 J	0.22 J	0.23 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	0.0023 J	0.0022 J	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	0.91	0.92	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	3.2 B	2.2 B	5
SPLP Metals (mg/l)				
Arsenic, SPLP	0.021 J	0.03 J	0.026 J	0.05
Barium, SPLP	0.25 J	0.23 J	0.23 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.056	0.068	0.066	0.1
Iron, SPLP	69 J-	67	65	5
Lead, SPLP	0.069	0.057	0.055	0.0075
Manganese, SPLP	0.78	0.52	0.53	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.054	0.054	0.052	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.29 J	0.21 J	0.2 J	5

Summary Table of ISGS Site No. 2948-67
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.

^A - 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

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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
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- 14
- 15

Client Sample Results

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

TestAmerica Job ID: 500-108492-1

Client Sample ID: AL67-2(0-1)-030816

Lab Sample ID: 500-108492-20

Date Collected: 03/08/16 13:42

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 14:37	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/10/16 14:37	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 14:37	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 14:37	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 14:37	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 14:37	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 14:37	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 14:37	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 14:37	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 14:37	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 14:37	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 14:37	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 14:37	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 14:37	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 14:37	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 14:37	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 14:37	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 14:37	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 14:37	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 14:37	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 14:37	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 14:37	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 14:37	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 14:37	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 14:37	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/10/16 14:37	1
Dibromofluoromethane	109		75 - 120		03/10/16 14:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/10/16 14:37	1
Toluene-d8 (Surr)	107		75 - 122		03/10/16 14:37	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	40	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	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: AL67-2(0-1)-030816

Lab Sample ID: 500-108492-20

Date Collected: 03/08/16 13:42

Matrix: Solid

Date Received: 03/08/16 16:45

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	84	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Acenaphthylene	21 J		37	4.9	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Anthracene	9.7 J		37	6.2	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Benzo[a]anthracene	53 *		37	5.0	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Benzo[a]pyrene	91 *		37	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Benzo[b]fluoranthene	140 *		37	8.0	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Benzo[g,h,i]perylene	51 *		37	12	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Benzo[k]fluoranthene	64 *		37	11	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Bis(2-ethylhexyl) phthalate	<190 *		190	67	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Butyl benzyl phthalate	<190 *		190	70	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Chrysene	77 *		37	10	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Fluoranthene	94		37	6.8	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	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: AL67-2(0-1)-030816

Lab Sample ID: 500-108492-20

Date Collected: 03/08/16 13:42

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 87.4

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	43	*	37	9.6	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Phenanthrene	39		37	5.1	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Pyrene	290	*	37	7.3	ug/Kg	☼	03/10/16 07:16	03/15/16 07:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/10/16 07:16	03/15/16 07:33	1
2-Fluorobiphenyl	92		25 - 119				03/10/16 07:16	03/15/16 07:33	1
2-Fluorophenol	103		25 - 110				03/10/16 07:16	03/15/16 07:33	1
Nitrobenzene-d5	84		25 - 115				03/10/16 07:16	03/15/16 07:33	1
Phenol-d5	79		31 - 110				03/10/16 07:16	03/15/16 07:33	1
Terphenyl-d14	218	X *	36 - 134				03/10/16 07:16	03/15/16 07:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Barium	0.25	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 01:33	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 01:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 01:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 01:33	1
Manganese	0.50		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 01:33	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 01:33	1
Zinc	0.20	J B	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Barium	0.25	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 21:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 21:57	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 21:57	1
Chromium	0.056		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Copper	0.045		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Iron	69		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 21:57	1
Lead	0.069		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 21:57	1
Manganese	0.78		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Nickel	0.054		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 21:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 21:57	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: AL67-2(0-1)-030816

Lab Sample ID: 500-108492-20

Date Collected: 03/08/16 13:42

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/14/16 21:57	1
Zinc	0.29	J	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 21:57	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	☼	03/14/16 09:24	03/14/16 20:38	1
Arsenic	2.8		0.47	0.22	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Barium	29		0.47	0.087	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Beryllium	0.22		0.19	0.041	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Cadmium	0.081	J	0.095	0.027	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Calcium	9300	B	9.5	3.0	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Chromium	7.4	B	2.4	0.081	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Cobalt	3.6		0.24	0.054	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Copper	5.4		0.47	0.10	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Iron	8400	B	9.5	3.7	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Lead	22		0.24	0.12	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Magnesium	5900	B	4.7	1.9	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Manganese	270		0.47	0.094	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Nickel	8.6	B	0.47	0.13	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Potassium	510		24	3.9	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Sodium	250		47	6.3	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Vanadium	12		0.24	0.069	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	1
Zinc	28		0.95	0.30	mg/Kg	☼	03/14/16 09:24	03/14/16 20:38	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		03/13/16 18:00	03/15/16 13:47	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		03/13/16 18:00	03/15/16 15:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	9.4	ug/Kg	☼	03/15/16 16:45	03/16/16 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			03/10/16 14:23	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





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		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		Project Location/State		Lab Project #		Parameter		VOCs		SVOCs		Total Metals		TOC/SP/ Metals			Comments
Sampler		Lab PM		Sampling		# of Containers		Matrix									
Lab ID	MS/MSD	Sample ID	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. jolly</u> Company: <u>Weston</u> Date: <u>3-8-2016</u> Time: <u>1520</u>	Received By <u>TA</u> Company: <u>TA</u> Date: <u>3/8/16</u> Time: <u>1500</u>	Lab Courier <u>TA</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>	Shipped
Relinquished By	Received By	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 #		S		VOCs		SNOGS				
Project Location/State		Lab PM		S		TOTAL Metals		TOURISTP Metals				
Sampler		Date		S		PH						
11	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SNOGS	TOTAL Metals	TOURISTP Metals	PH	Comments
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 Re-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>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:

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: 500-108491-1
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 8:52:28 AM

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

LINKS

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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: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816

Lab Sample ID: 500-108491-1

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 00:19	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:19	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/10/16 00:19	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:19	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:19	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 00:19	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 00:19	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:19	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 00:19	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 00:19	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:19	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 00:19	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 00:19	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 00:19	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 00:19	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 00:19	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:19	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 00:19	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:19	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 00:19	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 00:19	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:19	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 00:19	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 00:19	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:19	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/10/16 00:19	1
Dibromofluoromethane	109		75 - 120		03/10/16 00:19	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/10/16 00:19	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 07:07	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: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816

Lab Sample ID: 500-108491-1

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	<360		360	83	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,4-Dimethylphenol	<360	*	360	140	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,4-Dinitrophenol	<740	F1	740	640	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
3,3'-Dichlorobenzidine	<180	F1	180	51	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4,6-Dinitro-2-methylphenol	<740	F1	740	290	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Acenaphthylene	7.0	J	36	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Benzo[a]anthracene	27	J	36	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Benzo[a]pyrene	36	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Benzo[b]fluoranthene	62	*	36	7.9	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Benzo[g,h,i]perylene	20	J *	36	12	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Benzo[k]fluoranthene	21	J *	36	11	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Bis(2-ethylhexyl) phthalate	<180	F1	180	67	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Butyl benzyl phthalate	<180	F1	180	70	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Carbazole	<180		180	91	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Chrysene	38		36	10	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Di-n-octyl phthalate	<180	F1	180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Fluoranthene	39		36	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Hexachlorocyclopentadiene	<740	F1	740	210	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 07:07	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: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816

Lab Sample ID: 500-108491-1

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 87.4

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	19	J*	36	9.5	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Phenanthrene	20	J	36	5.1	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Pyrene	89	F1	36	7.3	ug/Kg	☼	03/10/16 07:07	03/11/16 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/10/16 07:07	03/11/16 23:44	1
2-Fluorobiphenyl	83		25 - 119				03/10/16 07:07	03/11/16 23:44	1
2-Fluorophenol	82		25 - 110				03/10/16 07:07	03/11/16 23:44	1
Nitrobenzene-d5	70		25 - 115				03/10/16 07:07	03/11/16 23:44	1
Phenol-d5	74		31 - 110				03/10/16 07:07	03/11/16 23:44	1
Terphenyl-d14	132		36 - 134				03/10/16 07:07	03/11/16 23:44	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 11:55	1
Barium	0.22	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 11:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 11:55	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 11:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 11:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 11:55	1
Manganese	0.91		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 11:55	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 11:55	1
Zinc	3.2	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Barium	0.23	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:05	1
Chromium	0.068		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Copper	0.042		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Iron	67		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:05	1
Lead	0.057		0.038	0.038	mg/L		03/13/16 15:00	03/15/16 22:57	5
Manganese	0.52		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Nickel	0.054		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816

Lab Sample ID: 500-108491-1

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/15/16 00:05	1
Zinc	0.21	J	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J F1	1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Arsenic	2.8		0.56	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Barium	24		0.56	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Beryllium	0.31		0.22	0.048	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Cadmium	0.12		0.11	0.032	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Calcium	11000	B	11	3.6	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Chromium	7.1	B	0.56	0.096	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Cobalt	3.0		0.28	0.063	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Copper	5.2		0.56	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Iron	6700	B	11	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Lead	21	F1	0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Magnesium	6900	B	5.6	2.3	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Manganese	190		0.56	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Nickel	7.1		0.56	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Potassium	450	F1	28	4.6	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Sodium	240		56	7.4	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Vanadium	10		0.28	0.082	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	1
Zinc	27		1.1	0.35	mg/Kg	☼	03/10/16 15:40	03/11/16 14:23	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		03/13/16 16:00	03/14/16 11:42	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		03/13/16 18:00	03/14/16 12:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		18	9.6	ug/Kg	☼	03/15/16 16:45	03/16/16 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			03/10/16 14:50	1

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816D

Lab Sample ID: 500-108491-2

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 00:45	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:45	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/10/16 00:45	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:45	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:45	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 00:45	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 00:45	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:45	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 00:45	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/10/16 00:45	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 00:45	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 00:45	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 00:45	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 00:45	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 00:45	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 00:45	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:45	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 00:45	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 00:45	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 00:45	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 00:45	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 00:45	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 00:45	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 00:45	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 00:45	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/10/16 00:45	1
Dibromofluoromethane	109		75 - 120		03/10/16 00:45	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/10/16 00:45	1
Toluene-d8 (Surr)	105		75 - 122		03/10/16 00:45	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 07:07	03/12/16 00:13	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816D

Lab Sample ID: 500-108491-2

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	<380		380	87	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,4-Dimethylphenol	<380	*	380	140	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Benzo[a]anthracene	17	J	38	5.1	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Benzo[a]pyrene	<38	*	38	7.4	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Benzo[b]fluoranthene	42	*	38	8.2	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Benzo[g,h,i]perylene	17	J *	38	12	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Benzo[k]fluoranthene	14	J *	38	11	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Carbazole	<190		190	95	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Chrysene	30	J	38	10	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Fluoranthene	21	J	38	7.1	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816D

Lab Sample ID: 500-108491-2

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 87.0

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	9.9	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Isophorone	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Phenanthrene	10	J	38	5.3	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Phenol	<190		190	85	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Pyrene	110		38	7.6	ug/Kg	☼	03/10/16 07:07	03/12/16 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		35 - 137				03/10/16 07:07	03/12/16 00:13	1
2-Fluorobiphenyl	83		25 - 119				03/10/16 07:07	03/12/16 00:13	1
2-Fluorophenol	83		25 - 110				03/10/16 07:07	03/12/16 00:13	1
Nitrobenzene-d5	71		25 - 115				03/10/16 07:07	03/12/16 00:13	1
Phenol-d5	74		31 - 110				03/10/16 07:07	03/12/16 00:13	1
Terphenyl-d14	173	X	36 - 134				03/10/16 07:07	03/12/16 00:13	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		03/11/16 14:59	03/14/16 12:07	1
Barium	0.23	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 12:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 12:07	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 12:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 12:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 12:07	1
Manganese	0.92		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 12:07	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:07	1
Zinc	2.2	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Barium	0.23	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:09	1
Chromium	0.066		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Copper	0.040		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Iron	65		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:09	1
Lead	0.055		0.038	0.038	mg/L		03/13/16 15:00	03/15/16 23:01	5
Manganese	0.53		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Nickel	0.052		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: AL67-3(0-1)-030816D

Lab Sample ID: 500-108491-2

Date Collected: 03/08/16 14:00

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/15/16 00:09	1
Zinc	0.20	J	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Arsenic	3.7		0.55	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Barium	23		0.55	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Beryllium	0.28		0.22	0.048	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Cadmium	0.052	J	0.11	0.032	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Calcium	8700	B	11	3.6	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Chromium	8.1	B	0.55	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Cobalt	3.4		0.28	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Copper	5.1		0.55	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Iron	7800	B	11	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Lead	15		0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Magnesium	5500	B	5.5	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Manganese	180		0.55	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Nickel	7.3		0.55	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Potassium	490		28	4.5	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Sodium	250		55	7.3	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Vanadium	13		0.28	0.081	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	1
Zinc	27		1.1	0.35	mg/Kg	☼	03/10/16 15:40	03/11/16 14:45	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		03/13/16 16:00	03/14/16 11:44	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		03/13/16 18:00	03/14/16 12:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	J	18	9.7	ug/Kg	☼	03/15/16 16:45	03/16/16 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			03/10/16 14:53	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108491-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
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.
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: 500-108491-1

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



500-108491 COC

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

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

Chain of Custody Record

Lab Job #: 500-108491
Chain of Custody Number:
Page 1 of
Temperature °C of Cooler: 24

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 Project #		Parameter								
Sampler		Lab PM		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCU/SP/ST/MT/AL	PH	Comments
1		AL67-3(0-1)-030816	3-8-16	1400	2	S	X	X	X	X	X	
2		AL67-3(0-1)-030816		1400	2	S	X	X	X	X	X	
3		F69-1(0-1)-030816		1410	2	S	X	X	X	X	X	
4		R70-1(0-1)-030816		1420	2	S	X	X	X	X	X	
5		R71-1(0-1)-030816		1440	2	S	X	X	X	X	X	
6		R70-2(0-1)-030816		1450	2	S	X	X	X	X	X	
7		R72-1(0-1)-030816	✓	1500	2	S	X	X	X	X	X	
		WL75-1(0-1)-030816	3-8-16		2	S	X	X	X	X	X	MDS
		*LAST ITEM										MDS

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>S. Babusukumar</u> Company: <u>Weston</u> Date: <u>3-8-2016</u> Time: <u>1500</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/8/16</u> Time: <u>1500</u>	Lab Courier <u>TA</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-CRT</u> Date: <u>3/8/16</u> Time: <u>1645</u>	Shipped _____
Relinquished By _____	Received By _____	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):

21300-21400 Blocks of W. IL 113 (ISGS Site No. 2948-68)

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: 41.242803994 Longitude: -88.123905061

(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: 41.242803994 Longitude: -88.123905061

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 WL68-1 AND WL68-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-68. 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: 500-108761-1.
ALSO SEE FIGURES 4-9/4-10 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.

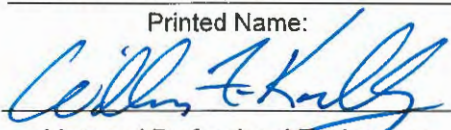
Street Address: 300 Circle Plaza; Suite 202

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. 2948-68
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	WL68-1(0-1)-031416	WL68-2(0-1)-031416	Soil Reference Concentrations
Sample Date	3/14/2016	3/14/2016	
Location ID	WL68-1	WL68-2	
Depth	0 - 1	0 - 1	
Location Code	2948-68	2948-68	
Parameter			
Laboratory pH	7.54	7.73	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	ND	10 J	900 / 1100 / 1800
Total Metals (mg/kg)			
Arsenic, Total	1.6 J-	1.9 J-	11.3 / 13
Barium, Total	23 J-	23 J-	1500
Beryllium, Total	0.16 J	0.22 J	22
Cadmium, Total	0.062 J	0.095 J	5.2
Calcium, Total	6900 J	27000 J	---
Chromium, Total	3.6 J-	4 J-	21
Iron, Total	4700 J	6100 J	15000 / 15900
Lead, Total	6.1 J+	8.3 J+	107
Manganese, Total	190 J	250 J	630 / 636
Mercury, Total	0.012 J	0.014 J	0.89
Nickel, Total	3.3	4.1	100
Potassium, Total	260 J	340 J	---
Selenium, Total	0.45 J	0.31 J	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	16 J	20 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.23 J	0.24 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	0.71	0.72	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	0.031 J	0.024 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.15 J	0.12 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.022 J	0.017 J	0.1
Iron, SPLP	20 J+	17 J+	5
Lead, SPLP	0.032	0.029	0.0075
Manganese, SPLP	0.51	0.43	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.013 J	ND	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.77 B	ND	5

Summary Table of ISGS Site No. 2948-68
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.

^A - 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

LINKS

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results through
TotalAccess

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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: WL68-1(0-1)-031416

Lab Sample ID: 500-108761-5

Date Collected: 03/14/16 10:50

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 17:03	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 17:03	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:03	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:03	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 17:03	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:03	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:03	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 17:03	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 17:03	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:03	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:03	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:03	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:03	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 17:03	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 17:03	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:03	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 17:03	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:03	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:03	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:03	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:03	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:03	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:03	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:03	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:03	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 17:03	1
Dibromofluoromethane	110		75 - 120		03/16/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/16/16 17:03	1
Toluene-d8 (Surr)	118		75 - 122		03/16/16 17:03	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	☼	03/17/16 07:08	03/24/16 03:11	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	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: WL68-1(0-1)-031416

Lab Sample ID: 500-108761-5

Date Collected: 03/14/16 10:50

Matrix: Solid

Date Received: 03/14/16 17:25

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	<360		360	83	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Benzo[a]pyrene	<36 *		36	7.1	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Benzo[b]fluoranthene	<36 *		36	7.9	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Carbazole	<180		180	91	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	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: WL68-1(0-1)-031416

Lab Sample ID: 500-108761-5

Date Collected: 03/14/16 10:50

Matrix: Solid

Date Received: 03/14/16 17:25

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	<36	*	36	9.5	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/17/16 07:08	03/24/16 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137	03/17/16 07:08	03/24/16 03:11	1
2-Fluorobiphenyl	96		25 - 119	03/17/16 07:08	03/24/16 03:11	1
2-Fluorophenol	114	X	25 - 110	03/17/16 07:08	03/24/16 03:11	1
Nitrobenzene-d5	93		25 - 115	03/17/16 07:08	03/24/16 03:11	1
Phenol-d5	61		31 - 110	03/17/16 07:08	03/24/16 03:11	1
Terphenyl-d14	110		36 - 134	03/17/16 07:08	03/24/16 03:11	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 14:26	03/24/16 20:34	1
Barium	0.23	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:34	1
Manganese	0.71		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:34	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:34	1
Zinc	0.031	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:34	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 14:49	03/25/16 00:48	1
Barium	0.15	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:25	1
Chromium	0.022	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:25	1
Copper	0.014	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:48	1
Iron	20		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:48	1
Lead	0.032		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:25	1
Manganese	0.51		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:48	1
Nickel	0.013	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:48	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: WL68-1(0-1)-031416

Lab Sample ID: 500-108761-5

Date Collected: 03/14/16 10:50

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 00:48	1
Zinc	0.77	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:48	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 05:48	1
Arsenic	1.6		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Barium	23		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Beryllium	0.16	J	0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Cadmium	0.062	J	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Calcium	6900	B	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Chromium	3.6		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Cobalt	2.0		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Copper	3.0		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Iron	4700		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Lead	6.1		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Magnesium	4200	B ^	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Manganese	190		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Nickel	3.3		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Potassium	260		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Selenium	0.45	J	0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Sodium	330	B	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Vanadium	6.1		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1
Zinc	16		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 05:48	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 17:35	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 10:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	17	9.0	ug/Kg	☼	03/21/16 15:30	03/22/16 23:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			03/17/16 13:17	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: WL68-2(0-1)-031416

Lab Sample ID: 500-108761-6

Date Collected: 03/14/16 11:00

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 17:28	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
Bromodichloromethane	<5.7		5.7	0.95	ug/Kg	☼		03/16/16 17:28	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:28	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:28	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 17:28	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:28	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:28	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/16/16 17:28	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/16/16 17:28	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 17:28	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:28	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:28	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:28	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 17:28	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 17:28	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:28	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/16/16 17:28	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 17:28	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 17:28	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 17:28	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 17:28	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 17:28	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 17:28	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 17:28	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/16/16 17:28	1
Dibromofluoromethane	110		75 - 120		03/16/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/16/16 17:28	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 17:28	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 06:43	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	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: WL68-2(0-1)-031416

Lab Sample ID: 500-108761-6

Date Collected: 03/14/16 11:00

Matrix: Solid

Date Received: 03/14/16 17:25

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	84	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Methylnaphthalene	15 J		36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Benzo[a]anthracene	10 J		36	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Carbazole	<180		180	91	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Chrysene	13 J		36	10	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Fluoranthene	14 J		36	6.8	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	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: WL68-2(0-1)-031416

Lab Sample ID: 500-108761-6

Date Collected: 03/14/16 11:00

Matrix: Solid

Date Received: 03/14/16 17:25

Percent Solids: 88.4

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	<36		36	9.5	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Isophorone	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Phenanthrene	28	J	36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Phenol	<180		180	81	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1
Pyrene	19	J	36	7.3	ug/Kg	☼	03/17/16 07:08	03/25/16 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137	03/17/16 07:08	03/25/16 06:43	1
2-Fluorobiphenyl	100		25 - 119	03/17/16 07:08	03/25/16 06:43	1
2-Fluorophenol	76		25 - 110	03/17/16 07:08	03/25/16 06:43	1
Nitrobenzene-d5	74		25 - 115	03/17/16 07:08	03/25/16 06:43	1
Phenol-d5	31		31 - 110	03/17/16 07:08	03/25/16 06:43	1
Terphenyl-d14	103		36 - 134	03/17/16 07:08	03/25/16 06:43	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		03/22/16 14:26	03/24/16 20:39	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:39	1
Manganese	0.72		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:39	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:39	1
Zinc	0.024	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:49	03/25/16 00:52	1
Barium	0.12	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:29	1
Chromium	0.017	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:29	1
Copper	0.015	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:52	1
Iron	17		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:52	1
Lead	0.029		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:29	1
Manganese	0.43		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:52	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: WL68-2(0-1)-031416

Lab Sample ID: 500-108761-6

Date Collected: 03/14/16 11:00

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 00:52	1
Zinc	0.51	B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:52	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	☼	03/17/16 14:03	03/25/16 05:52	1
Arsenic	1.9		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Barium	23		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Beryllium	0.22	J	0.23	0.049	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Cadmium	0.095	J	0.11	0.033	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Calcium	27000	B	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Chromium	4.0		0.56	0.097	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Cobalt	2.3		0.28	0.064	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Copper	4.4		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Iron	6100		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Lead	8.3		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Magnesium	17000	B ^	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Manganese	250		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Nickel	4.1		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Potassium	340		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Selenium	0.31	J	0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Sodium	400	B	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Vanadium	7.1		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1
Zinc	20		1.1	0.36	mg/Kg	☼	03/17/16 14:03	03/25/16 05:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 17:37	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 10:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	16	8.5	ug/Kg	☼	03/21/16 15:30	03/22/16 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			03/17/16 13:22	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

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-108761 COC

Report To (optional)
Contact: S. Babunghuman
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 1 of 4
Temperature °C of Cooler: 2.3, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH
Project Location/State		Lab PM		Date	Time							
T. Weston												
IDOT-040												
Braidwood Center Park		D. Wright										
T. Wells												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH	Comments
1		R70-4(0-1)-031416	3-14-16	1005	2 S		X	X	X	X	X	
2		R70-5(0-1)-031416		1020								
3		R70-6(0-1)-031416		1030								
4		R70-7(0-1)-031416		1040								
5		WL68-1(0-1)-031416		1050								
6		WL68-2(0-1)-031416		1100								
7		R66-3(0-1)-031416		1110								
8		R63-2(0-1)-031416		1125								
9		R60-1(0-1)-031416		1145								
10		R60-1(0-1)-031416D	3-14-16	1145	2 S		X	X	X	X	X	

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

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
 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>Zanick</u> Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>16:45</u>	Received By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>16:45</u>
Relinquished By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Shawn Scott</u> Company <u>TA-CAT</u>	Date <u>3/15/16</u>	Time <u>0725</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

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

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

21110-21324 W. IL 113 (ISGS Site No. 2948-70)

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: 41.241599109 Longitude: -88.11990341

(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: 41.241599109 Longitude: -88.11990341

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 R70-1, R70-2, R70-3, AND R70-5 THROUGH R70-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-70. SEE FIGURE 3-10 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: 500-108491-1, 500-108729-1, and 500-108761-1. ALSO SEE FIGURE 4-10 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.

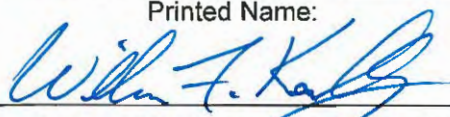
Street Address: 300 Circle Plaza, Suite 202

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:



Summary Table of ISGS Site No. 2948-70
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	R70-1(0-1)-030816	R70-2(0-1)-030816	R70-3(0-1)-031116	R70-5(0-1)-031416	R70-6(0-1)-031416	R70-7(0-1)-031416	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	3/11/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R70-1	R70-2	R70-3	R70-5	R70-6	R70-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-70	2948-70	2948-70	2948-70	2948-70	2948-70	
Parameter							
Laboratory pH	8.43	8.01	8.67	8.75	7.47	8.63	<6.25,>9.0
VOCs (ug/kg)	None Detected						
SVOCs (ug/kg)							
Benzo(a)anthracene	97 J	ND	9.6 J	9.7 J	20 J	40	900 / 1100 / 1800
Benzo(a)pyrene	180 J	ND	ND	ND	30 J	45	90 / 1300 / 2100
Benzo(b)fluoranthene	320 J	ND	19 J	ND	38	59	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	110 J	ND	ND	ND	15 J	34 J	900 / 900 / 1600
Total Metals (mg/kg)							
Arsenic, Total	2.8	2.5	1.9 J	3.1 J-	2.7 J-	2.2 J-	11.3 / 13
Barium, Total	37	31	35	35 J-	32 J-	24 J-	1500
Beryllium, Total	0.28	0.27	0.23	0.27 J-	0.29 J-	0.19 J	22
Cadmium, Total	0.12	0.061 J	0.1 J	0.049 J	ND	0.089 J	5.2
Calcium, Total	28000 J-	7700 J-	16000 J	11000 J	3600 J	47000 J	---
Chromium, Total	6.3 B	6.2 B	4.4	5.8 J-	6.4 J-	4.4 J-	21
Iron, Total	8400 J+	8900 J+	6200 J	9600 J	8300 J	6500 J	15000 / 15900
Lead, Total	15 J-	9.5 J-	8.6	7.7 J+	8.7 J+	17 J+	107
Manganese, Total	540 J-	360 J-	340 J-	440 J	330 J	270 J	630 / 636
Mercury, Total	0.025	0.016 J	0.013 J	0.019	0.02	0.024	0.89
Nickel, Total	6.8	6.4	5 J	7.2	6.2	4.9	100
Potassium, Total	420 J+	400 J+	360	430 J	460 J	450 J	---
Selenium, Total	0.49 J	ND	0.46 J	ND	0.29 J	0.4 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	26	23	22	23 J	25 J	40 J	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.32 J	0.31 J	0.3 J	0.25 J	0.24 J	0.19 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0022 J	0.0023 J	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.2	1.3	1.2	0.44	0.41	0.93	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	3.4 B	1.1 B	0.41 J	0.02 J	0.064 J	0.064 J	5

Summary Table of ISGS Site No. 2948-70
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	R70-1(0-1)-030816	R70-2(0-1)-030816	R70-3(0-1)-031116	R70-5(0-1)-031416	R70-6(0-1)-031416	R70-7(0-1)-031416	Soil Reference Concentrations
Sample Date	3/8/2016	3/8/2016	3/11/2016	3/14/2016	3/14/2016	3/14/2016	
Location ID	R70-1	R70-2	R70-3	R70-5	R70-6	R70-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-70	2948-70	2948-70	2948-70	2948-70	2948-70	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	0.011 J	0.013 J	ND	ND	ND	ND	0.05
Barium, SPLP	0.16 J	0.22 J	0.14 J	0.27 J	0.2 J	0.26 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.035	0.041	0.021 J	0.032	0.011 J	0.053	0.1
Iron, SPLP	38	46	20 J+	31 J+	7 J+	56 J+	5
Lead, SPLP	0.039	ND	0.038	0.032	0.01	0.089	0.0075
Manganese, SPLP	0.5	1.4	0.57	0.45	0.095	1.2	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.025	0.036	0.015 J	0.02 J	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	0.57	0.36 J	0.13 J	ND	ND	ND	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108491-1
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 8:52:28 AM

Richard Wright, Senior Project Manager
(708)534-5200
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
- 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: 500-108491-1

Client Sample ID: R70-1(0-1)-030816

Lab Sample ID: 500-108491-4

Date Collected: 03/08/16 14:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 01:37	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 01:37	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/10/16 01:37	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 01:37	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 01:37	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/10/16 01:37	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 01:37	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 01:37	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/10/16 01:37	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/10/16 01:37	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 01:37	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 01:37	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 01:37	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/10/16 01:37	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/10/16 01:37	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 01:37	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/10/16 01:37	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 01:37	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/10/16 01:37	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 01:37	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 01:37	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 01:37	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 01:37	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 01:37	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/10/16 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/10/16 01:37	1
Dibromofluoromethane	108		75 - 120		03/10/16 01:37	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/10/16 01:37	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 01:37	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	☼	03/10/16 07:07	03/13/16 20:00	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-1(0-1)-030816

Lab Sample ID: 500-108491-4

Date Collected: 03/08/16 14:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	84	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,4-Dimethylphenol	<360	*	360	140	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Methylnaphthalene	8.7	J	36	6.7	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Acenaphthylene	35	J	36	4.8	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Anthracene	16	J	36	6.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Benzo[a]anthracene	97	*	36	4.9	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Benzo[a]pyrene	180	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Benzo[b]fluoranthene	320	*	36	7.9	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Benzo[g,h,i]perylene	130	*	36	12	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Benzo[k]fluoranthene	110	*	36	11	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Carbazole	<180		180	92	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Chrysene	130	*	36	10	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Fluoranthene	140		36	6.8	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Fluorene	<36		36	5.2	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-1(0-1)-030816

Lab Sample ID: 500-108491-4

Date Collected: 03/08/16 14:20

Matrix: Solid

Date Received: 03/08/16 16:45

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	110	*	36	9.5	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Phenanthrene	37		36	5.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Pyrene	340	*	36	7.3	ug/Kg	☼	03/10/16 07:07	03/13/16 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				03/10/16 07:07	03/13/16 20:00	1
2-Fluorobiphenyl	71		25 - 119				03/10/16 07:07	03/13/16 20:00	1
2-Fluorophenol	82		25 - 110				03/10/16 07:07	03/13/16 20:00	1
Nitrobenzene-d5	70		25 - 115				03/10/16 07:07	03/13/16 20:00	1
Phenol-d5	73		31 - 110				03/10/16 07:07	03/13/16 20:00	1
Terphenyl-d14	176	X*	36 - 134				03/10/16 07:07	03/13/16 20:00	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		03/11/16 14:59	03/14/16 12:17	1
Barium	0.32	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 12:17	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 12:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 12:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 12:17	1
Manganese	1.2		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 12:17	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:17	1
Zinc	3.4	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Barium	0.16	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:18	1
Chromium	0.035		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Copper	0.022	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Iron	38		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:18	1
Lead	0.039		0.038	0.038	mg/L		03/13/16 15:00	03/15/16 23:09	5
Manganese	0.50		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Nickel	0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-1(0-1)-030816

Lab Sample ID: 500-108491-4

Date Collected: 03/08/16 14:20

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/15/16 00:18	1
Zinc	0.57		0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:18	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	☼	03/10/16 15:40	03/11/16 14:54	1
Arsenic	2.8		0.54	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Barium	37		0.54	0.099	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Beryllium	0.28		0.22	0.047	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Cadmium	0.12		0.11	0.031	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Calcium	28000	B	11	3.5	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Chromium	6.3	B	0.54	0.093	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Cobalt	4.1		0.27	0.061	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Copper	4.7		0.54	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Iron	8400	B	11	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Lead	15		0.27	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Magnesium	18000	B	5.4	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Manganese	540		0.54	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Nickel	6.8		0.54	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Potassium	420		27	4.4	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Selenium	0.49	J	0.54	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Sodium	460		54	7.1	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Vanadium	9.5		0.27	0.079	mg/Kg	☼	03/10/16 15:40	03/11/16 14:54	1
Zinc	26		1.1	0.34	mg/Kg	☼	03/10/16 15:40	03/11/16 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		03/13/16 16:00	03/14/16 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		18	9.2	ug/Kg	☼	03/15/16 16:45	03/16/16 20:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			03/10/16 14:58	1

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-2(0-1)-030816

Lab Sample ID: 500-108491-6

Date Collected: 03/08/16 14:50

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 02:30	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:30	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 02:30	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:30	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 02:30	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 02:30	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:30	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 02:30	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:30	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:30	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 02:30	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:30	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/10/16 02:30	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:30	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:30	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:30	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:30	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 02:30	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 02:30	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:30	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:30	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/10/16 02:30	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:30	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/10/16 02:30	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:30	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:30	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:30	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:30	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:30	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/10/16 02:30	1
Dibromofluoromethane	108		75 - 120		03/10/16 02:30	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/10/16 02:30	1
Toluene-d8 (Surr)	103		75 - 122		03/10/16 02:30	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 07:07	03/13/16 20:58	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-2(0-1)-030816

Lab Sample ID: 500-108491-6

Date Collected: 03/08/16 14:50

Matrix: Solid

Date Received: 03/08/16 16:45

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	<350		350	81	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,4-Dimethylphenol	<350	*	350	140	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Anthracene	<35		35	6.0	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Benzo[a]anthracene	<35	*	35	4.8	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Benzo[a]pyrene	<35	*	35	6.9	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Benzo[b]fluoranthene	<35	*	35	7.7	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Benzo[k]fluoranthene	<35	*	35	11	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Carbazole	<180		180	89	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Chrysene	<35	*	35	9.7	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Fluoranthene	<35		35	6.6	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-2(0-1)-030816

Lab Sample ID: 500-108491-6

Date Collected: 03/08/16 14:50

Matrix: Solid

Date Received: 03/08/16 16:45

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	<35	*	35	9.2	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Phenanthrene	6.6	J	35	5.0	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Phenol	<180		180	79	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Pyrene	16	J *	35	7.1	ug/Kg	☼	03/10/16 07:07	03/13/16 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137				03/10/16 07:07	03/13/16 20:58	1
2-Fluorobiphenyl	76		25 - 119				03/10/16 07:07	03/13/16 20:58	1
2-Fluorophenol	90		25 - 110				03/10/16 07:07	03/13/16 20:58	1
Nitrobenzene-d5	60		25 - 115				03/10/16 07:07	03/13/16 20:58	1
Phenol-d5	75		31 - 110				03/10/16 07:07	03/13/16 20:58	1
Terphenyl-d14	183	X *	36 - 134				03/10/16 07:07	03/13/16 20:58	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		03/11/16 14:59	03/14/16 12:28	1
Barium	0.31	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 12:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 12:28	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 12:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 12:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 12:28	1
Manganese	1.3		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 12:28	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:28	1
Zinc	1.1	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Barium	0.22	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:35	1
Chromium	0.041		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Copper	0.026		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Iron	46		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:35	1
Lead	<0.038		0.038	0.038	mg/L		03/13/16 15:00	03/15/16 23:13	5
Manganese	1.4		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Nickel	0.036		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R70-2(0-1)-030816

Lab Sample ID: 500-108491-6

Date Collected: 03/08/16 14:50

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/15/16 00:35	1
Zinc	0.36	J	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:35	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.1	0.22	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Arsenic	2.5		0.53	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Barium	31		0.53	0.098	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Beryllium	0.27		0.21	0.046	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Cadmium	0.061	J	0.11	0.031	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Calcium	7700	B	11	3.4	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Chromium	6.2	B	0.53	0.092	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Cobalt	3.6		0.27	0.060	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Copper	4.5		0.53	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Iron	8900	B	11	4.1	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Lead	9.5		0.27	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Magnesium	4900	B	5.3	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Manganese	360		0.53	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Nickel	6.4		0.53	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Potassium	400		27	4.4	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Sodium	380		53	7.0	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Vanadium	10		0.27	0.078	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	1
Zinc	23		1.1	0.34	mg/Kg	☼	03/10/16 15:40	03/11/16 15:12	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		03/13/16 16:00	03/14/16 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	17	9.1	ug/Kg	☼	03/15/16 16:45	03/16/16 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			03/10/16 15:03	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108491-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
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.
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: 500-108491-1

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



500-108491 COC

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

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

Chain of Custody Record

Lab Job #: 500-108491

Chain of Custody Number: _____

Page 1 of _____

Temperature °C of Cooler: 24

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key		
Weston Solutions Inc.		02056-014-040-0030		7	7	7	7	7				
Project Name		Lab Project #		Date		Time		# of Containers		Comments		
IDOT 040 - IL Route 113												
Project Location/State		Lab Project #		Date		Time		# of Containers		Comments		
Braidwood, IL												
Sampler		Lab PM		Date		Time		# of Containers		Comments		
M. Doherty-Slabic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TURBIDITY	NUTRIENTS	PH
1		AL67-3(0-1)-030816	3-8-16	1400	2	S	X	X	X	X	X	X
2		AL67-3(0-1)-030816		1400	2	S	X	X	X	X	X	X
3		F69-1(0-1)-030816		1410	2	S	X	X	X	X	X	X
4		R70-1(0-1)-030816		1420	2	S	X	X	X	X	X	X
5		R71-1(0-1)-030816		1440	2	S	X	X	X	X	X	X
6		R70-2(0-1)-030816		1450	2	S	X	X	X	X	X	X
7		R72-1(0-1)-030816	3-8-16	1500	2	S	X	X	X	X	X	X
		WL75-1(0-1)-030816	3-8-16		2	S	X	X	X	X	X	X
		*LAST ITEM										

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>S. Babusukumar</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1500</u>	Received By <u>[Signature]</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-CRT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier	<u>TA</u>
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: 500-108729-1
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:
3/25/2016 4:31:05 PM

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

LINKS

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results through
TotalAccess

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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: 500-108729-1

Client Sample ID: R70-3(0-1)-031116

Lab Sample ID: 500-108729-16

Date Collected: 03/11/16 14:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 11:59	1
Benzene	<5.5	F1	5.5	1.2	ug/Kg	☼		03/16/16 11:59	1
Bromodichloromethane	<5.5	F1	5.5	0.94	ug/Kg	☼		03/16/16 11:59	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
Bromomethane	<5.5	F1	5.5	2.0	ug/Kg	☼		03/16/16 11:59	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 11:59	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/16/16 11:59	1
Chlorobenzene	<5.5	F1	5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/16/16 11:59	1
Chloroform	<5.5	F1	5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
cis-1,2-Dichloroethene	<5.5	F1	5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
cis-1,3-Dichloropropene	<5.5	F1	5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
Dibromochloromethane	<5.5	F1	5.5	0.64	ug/Kg	☼		03/16/16 11:59	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
1,2-Dichloroethane	<5.5	F1	5.5	0.82	ug/Kg	☼		03/16/16 11:59	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 11:59	1
1,2-Dichloropropane	<5.5	F1	5.5	1.5	ug/Kg	☼		03/16/16 11:59	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/16/16 11:59	1
Ethylbenzene	<5.5	F1	5.5	1.4	ug/Kg	☼		03/16/16 11:59	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/16/16 11:59	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/16/16 11:59	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/16/16 11:59	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
Styrene	<5.5	F1	5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
1,1,2,2-Tetrachloroethane	<5.5	F1	5.5	0.88	ug/Kg	☼		03/16/16 11:59	1
Tetrachloroethene	<5.5	F1	5.5	1.2	ug/Kg	☼		03/16/16 11:59	1
Toluene	<5.5	F1	5.5	1.9	ug/Kg	☼		03/16/16 11:59	1
trans-1,2-Dichloroethene	<5.5	F1	5.5	1.4	ug/Kg	☼		03/16/16 11:59	1
trans-1,3-Dichloropropene	<5.5	F1	5.5	1.6	ug/Kg	☼		03/16/16 11:59	1
1,1,1-Trichloroethane	<5.5	F1	5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
1,1,2-Trichloroethane	<5.5	F1	5.5	1.1	ug/Kg	☼		03/16/16 11:59	1
Trichloroethene	<5.5	F1	5.5	1.5	ug/Kg	☼		03/16/16 11:59	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/16/16 11:59	1
Xylenes, Total	<11	F1	11	2.1	ug/Kg	☼		03/16/16 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		03/16/16 11:59	1
Dibromofluoromethane	108		75 - 120		03/16/16 11:59	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/16/16 11:59	1
Toluene-d8 (Surr)	107		75 - 122		03/16/16 11:59	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	☼	03/16/16 17:37	03/23/16 20:14	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R70-3(0-1)-031116

Lab Sample ID: 500-108729-16

Date Collected: 03/11/16 14:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.2

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	☼	03/16/16 17:37	03/23/16 20:14	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Benzo[a]anthracene	9.6	J	35	4.8	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Benzo[a]pyrene	<35	*	35	6.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Benzo[b]fluoranthene	19	J	35	7.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Carbazole	<180		180	89	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Chrysene	15	J	35	9.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Fluoranthene	15	J	35	6.6	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R70-3(0-1)-031116

Lab Sample ID: 500-108729-16

Date Collected: 03/11/16 14:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.2

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	<35	*	35	9.2	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Phenanthrene	20	J	35	5.0	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Phenol	<180		180	79	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Pyrene	17	J	35	7.1	ug/Kg	☼	03/16/16 17:37	03/23/16 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/16/16 17:37	03/23/16 20:14	1
2-Fluorobiphenyl	90		25 - 119				03/16/16 17:37	03/23/16 20:14	1
2-Fluorophenol	96		25 - 110				03/16/16 17:37	03/23/16 20:14	1
Nitrobenzene-d5	97		25 - 115				03/16/16 17:37	03/23/16 20:14	1
Phenol-d5	93		31 - 110				03/16/16 17:37	03/23/16 20:14	1
Terphenyl-d14	111		36 - 134				03/16/16 17:37	03/23/16 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		03/22/16 08:08	03/24/16 19:32	1
Barium	0.30	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 19:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 19:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 19:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 19:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 19:32	1
Manganese	1.2		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 19:32	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:32	1
Zinc	0.41	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 19:32	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		03/23/16 08:19	03/24/16 20:04	1
Barium	0.14	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 20:04	1
Chromium	0.021	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 20:04	1
Copper	0.021	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 20:04	1
Iron	20		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 20:04	1
Lead	0.038		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 20:04	1
Manganese	0.57		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 20:04	1
Nickel	0.015	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 20:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R70-3(0-1)-031116

Lab Sample ID: 500-108729-16

Date Collected: 03/11/16 14:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.2

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 08:19	03/24/16 20:04	1
Zinc	0.13	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 20:04	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 15:42	03/24/16 00:30	1
Arsenic	1.9		0.53	0.24	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Barium	35		0.53	0.097	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Beryllium	0.23		0.21	0.046	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Cadmium	0.10	J	0.11	0.031	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Calcium	16000		11	3.4	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Chromium	4.4		0.53	0.091	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Cobalt	2.8		0.26	0.060	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Copper	3.8	B	0.53	0.11	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Iron	6200	B	11	4.1	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Lead	8.6		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Magnesium	8500		5.3	2.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Manganese	340		0.53	0.10	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Nickel	5.0		0.53	0.14	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Potassium	360		26	4.3	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Selenium	0.46	J	0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Sodium	270	B	53	7.0	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Vanadium	8.7		0.26	0.077	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	1
Zinc	22		1.1	0.34	mg/Kg	☼	03/17/16 15:42	03/24/16 00:30	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		03/21/16 18:30	03/22/16 16:52	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		03/23/16 09:00	03/23/16 17:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	17	8.7	ug/Kg	☼	03/21/16 15:30	03/22/16 22:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.67		0.200	0.200	SU			03/16/16 14:12	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108729-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD 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
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.
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: 500-108729-1

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. Babusuluman
Company: Waste
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: SW-108729
Chain of Custody Number: _____
Page 4 of 4
Temperature °C of Cooler: 47

Client		Client Project #		Preservative		Parameter		Comments			
<u>Waste</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>JDOT-010</u>											
Project Location/State		Lab PM									
<u>Bradwood (IL)</u>		<u>D. Singh</u>									
Sampler		Date		Time		S					
<u>T. Wall</u>											
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	SOCs	SNOCS	Total Metals	TCLP/SLD Metals	PH
<u>11</u>		<u>WL76-8(0-1)-031116</u>	<u>3-11-16</u>	<u>1325</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>WL76-9(0-1)-031116</u>		<u>1335</u>							
<u>13</u>		<u>R74-5(0-1)-031116</u>		<u>1345</u>							
<u>14</u>		<u>R74-6(0-1)-031116</u>		<u>1400</u>							
<u>15</u>		<u>R74-7(0-1)-031116</u>		<u>1410</u>							
<u>16</u>		<u>R70-3(0-1)-031116</u>	<u>3-11-16</u>	<u>1425</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>T. Wall 3-11-16</u>											

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Special 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>Waste</u>	Date <u>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1515</u>
Relinquished By <u>[Signature]</u>	Company <u>Waste</u>	Date <u>3/11/16</u>	Time <u>1620</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>03/11/16</u>	Time <u>16:20</u>

Lab Courier: TA-UTC
 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: 500-108761-1
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

LINKS

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results through
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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: R70-5(0-1)-031416

Lab Sample ID: 500-108761-2

Date Collected: 03/14/16 10:20

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 15:48	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 15:48	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/16/16 15:48	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:48	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:48	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/16/16 15:48	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 15:48	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 15:48	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/16/16 15:48	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/16/16 15:48	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:48	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/16/16 15:48	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:48	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/16/16 15:48	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/16/16 15:48	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/16/16 15:48	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/16/16 15:48	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/16/16 15:48	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/16/16 15:48	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:48	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/16/16 15:48	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/16/16 15:48	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/16/16 15:48	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/16/16 15:48	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/16/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 15:48	1
Dibromofluoromethane	110		75 - 120		03/16/16 15:48	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/16/16 15:48	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 15:48	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	☼	03/17/16 07:08	03/24/16 01:45	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	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: R70-5(0-1)-031416

Lab Sample ID: 500-108761-2

Date Collected: 03/14/16 10:20

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼	03/17/16 07:08	03/24/16 01:45	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Benzo[a]anthracene	9.7 J		38	5.1	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Carbazole	<190		190	95	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Chrysene	12 J		38	10	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Fluoranthene	12 J		38	7.1	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	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: R70-5(0-1)-031416

Lab Sample ID: 500-108761-2

Date Collected: 03/14/16 10:20

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼	03/17/16 07:08	03/24/16 01:45	1
Isophorone	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Phenol	<190		190	85	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1
Pyrene	12	J	38	7.6	ug/Kg	☼	03/17/16 07:08	03/24/16 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	26	X	35 - 137	03/17/16 07:08	03/24/16 01:45	1
2-Fluorobiphenyl	93		25 - 119	03/17/16 07:08	03/24/16 01:45	1
2-Fluorophenol	107		25 - 110	03/17/16 07:08	03/24/16 01:45	1
Nitrobenzene-d5	90		25 - 115	03/17/16 07:08	03/24/16 01:45	1
Phenol-d5	63		31 - 110	03/17/16 07:08	03/24/16 01:45	1
Terphenyl-d14	103		36 - 134	03/17/16 07:08	03/24/16 01:45	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		03/22/16 14:26	03/24/16 20:10	1
Barium	0.25	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:10	1
Manganese	0.44		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:10	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:10	1
Zinc	0.020	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:10	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		03/23/16 14:49	03/25/16 00:36	1
Barium	0.27	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:12	1
Chromium	0.032		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:12	1
Copper	0.023	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:36	1
Iron	31		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:36	1
Lead	0.032		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:12	1
Manganese	0.45		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:36	1
Nickel	0.020	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:36	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: R70-5(0-1)-031416

Lab Sample ID: 500-108761-2

Date Collected: 03/14/16 10:20

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 00:36	1
Zinc	0.43	J B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:36	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	☼	03/17/16 14:03	03/25/16 05:34	1
Arsenic	3.1		0.57	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Barium	35		0.57	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Beryllium	0.27		0.23	0.050	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Cadmium	0.049	J	0.11	0.033	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Calcium	11000	B	11	3.7	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Chromium	5.8		0.57	0.098	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Cobalt	4.2		0.29	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Copper	5.0		0.57	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Iron	9600		11	4.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Lead	7.7		0.29	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Magnesium	5100	B ^	5.7	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Manganese	440		0.57	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Nickel	7.2		0.57	0.16	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Potassium	430		29	4.7	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Sodium	430	B	57	7.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Vanadium	11		0.29	0.084	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	1
Zinc	23		1.1	0.36	mg/Kg	☼	03/17/16 14:03	03/25/16 05:34	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		03/23/16 09:00	03/23/16 17:25	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		03/23/16 17:00	03/24/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19		17	9.0	ug/Kg	☼	03/21/16 15:30	03/22/16 23:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.75		0.200	0.200	SU			03/17/16 13:01	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: R70-6(0-1)-031416

Lab Sample ID: 500-108761-3

Date Collected: 03/14/16 10:30

Matrix: Solid

Date Received: 03/14/16 17:25

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	☼		03/16/16 16:13	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:13	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/16/16 16:13	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:13	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:13	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 16:13	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 16:13	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:13	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 16:13	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 16:13	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:13	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 16:13	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 16:13	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 16:13	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 16:13	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 16:13	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:13	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 16:13	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:13	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 16:13	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 16:13	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:13	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 16:13	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 16:13	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:13	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 16:13	1
Dibromofluoromethane	111		75 - 120		03/16/16 16:13	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/16/16 16:13	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 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	40	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	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: R70-6(0-1)-031416

Lab Sample ID: 500-108761-3

Date Collected: 03/14/16 10:30

Matrix: Solid

Date Received: 03/14/16 17:25

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	<370		370	85	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Acenaphthylene	6.5 J		37	4.9	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Benzo[a]anthracene	20 J		37	5.0	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Benzo[a]pyrene	30 J		37	7.2	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Benzo[b]fluoranthene	38		37	8.0	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Benzo[g,h,i]perylene	15 J		37	12	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Carbazole	<190		190	93	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Chrysene	23 J		37	10	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Fluoranthene	37		37	6.9	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	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: R70-6(0-1)-031416

Lab Sample ID: 500-108761-3

Date Collected: 03/14/16 10:30

Matrix: Solid

Date Received: 03/14/16 17:25

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	15	J	37	9.6	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Isophorone	<190		190	42	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Phenanthrene	13	J	37	5.2	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Phenol	<190		190	82	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Pyrene	38		37	7.4	ug/Kg	☼	03/17/16 07:08	03/24/16 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	57		35 - 137				03/17/16 07:08	03/24/16 02:13	1
<i>2-Fluorobiphenyl</i>	88		25 - 119				03/17/16 07:08	03/24/16 02:13	1
<i>2-Fluorophenol</i>	104		25 - 110				03/17/16 07:08	03/24/16 02:13	1
<i>Nitrobenzene-d5</i>	84		25 - 115				03/17/16 07:08	03/24/16 02:13	1
<i>Phenol-d5</i>	80		31 - 110				03/17/16 07:08	03/24/16 02:13	1
<i>Terphenyl-d14</i>	99		36 - 134				03/17/16 07:08	03/24/16 02:13	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 14:26	03/24/16 20:15	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:15	1
Manganese	0.41		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:15	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:15	1
Zinc	0.064	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 20:15	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		03/23/16 14:49	03/25/16 00:40	1
Barium	0.20	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:16	1
Chromium	0.011	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:16	1
Copper	0.012	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:40	1
Iron	7.0		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:40	1
Lead	0.010		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:16	1
Manganese	0.095		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:40	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: R70-6(0-1)-031416

Lab Sample ID: 500-108761-3

Date Collected: 03/14/16 10:30

Matrix: Solid

Date Received: 03/14/16 17:25

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		03/23/16 14:49	03/25/16 00:40	1
Zinc	0.35	J B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:40	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 05:39	1
Arsenic	2.7		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Barium	32		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Beryllium	0.29		0.22	0.048	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Calcium	3600	B	11	3.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Chromium	6.4		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Cobalt	4.0		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Copper	4.2		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Iron	8300		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Lead	8.7		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Magnesium	2500	B ^	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Manganese	330		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Nickel	6.2		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Potassium	460		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Selenium	0.29	J	0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Sodium	120	B	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Vanadium	12		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	1
Zinc	25		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 05:39	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		03/23/16 09:00	03/23/16 17:31	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		03/23/16 17:00	03/24/16 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20		19	10	ug/Kg	☼	03/21/16 15:30	03/22/16 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			03/17/16 13:06	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: R70-7(0-1)-031416

Lab Sample ID: 500-108761-4

Date Collected: 03/14/16 10:40

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 16:38	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 16:38	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:38	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:38	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 16:38	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 16:38	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:38	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 16:38	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/16/16 16:38	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 16:38	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 16:38	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 16:38	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:38	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 16:38	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 16:38	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 16:38	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/16/16 16:38	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 16:38	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 16:38	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:38	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 16:38	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 16:38	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 16:38	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 16:38	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 16:38	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 16:38	1
Dibromofluoromethane	110		75 - 120		03/16/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 16:38	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 16:38	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 06:14	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108761-1

Client Sample ID: R70-7(0-1)-031416

Lab Sample ID: 500-108761-4

Date Collected: 03/14/16 10:40

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	82	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Methylnaphthalene	6.6	J	36	6.6	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Acenaphthylene	6.7	J	36	4.8	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Anthracene	12	J	36	6.0	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Benzo[a]anthracene	40		36	4.9	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Benzo[a]pyrene	45		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Benzo[b]fluoranthene	59		36	7.8	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Benzo[g,h,i]perylene	34	J	36	12	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Benzo[k]fluoranthene	19	J	36	11	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Carbazole	<180		180	90	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Chrysene	40		36	9.8	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Fluoranthene	100		36	6.7	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108761-1

Client Sample ID: R70-7(0-1)-031416

Lab Sample ID: 500-108761-4

Date Collected: 03/14/16 10:40

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
Indeno[1,2,3-cd]pyrene	34	J	36	9.3	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Isophorone	<180		180	40	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Phenanthrene	66		36	5.0	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Phenol	<180		180	80	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Pyrene	98		36	7.2	ug/Kg	☼	03/17/16 07:08	03/25/16 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				03/17/16 07:08	03/25/16 06:14	1
2-Fluorobiphenyl	98		25 - 119				03/17/16 07:08	03/25/16 06:14	1
2-Fluorophenol	86		25 - 110				03/17/16 07:08	03/25/16 06:14	1
Nitrobenzene-d5	81		25 - 115				03/17/16 07:08	03/25/16 06:14	1
Phenol-d5	12	X	31 - 110				03/17/16 07:08	03/25/16 06:14	1
Terphenyl-d14	103		36 - 134				03/17/16 07:08	03/25/16 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		03/22/16 14:26	03/24/16 20:29	1
Barium	0.19	J	0.50	0.050	mg/L		03/22/16 14:26	03/24/16 20:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 14:26	03/24/16 20:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 14:26	03/24/16 20:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 14:26	03/24/16 20:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 14:26	03/24/16 20:29	1
Manganese	0.93		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 14:26	03/24/16 20:29	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 14:26	03/24/16 20:29	1
Zinc	0.064	J	0.50	0.020	mg/L		03/22/16 14:26	03/24/16 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		03/23/16 14:49	03/25/16 00:44	1
Barium	0.26	J	0.50	0.050	mg/L		03/23/16 14:49	03/25/16 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:49	03/25/16 00:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:49	03/25/16 18:21	1
Chromium	0.053		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:44	1
Cobalt	0.014	J	0.025	0.010	mg/L		03/23/16 14:49	03/25/16 18:21	1
Copper	0.036		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:44	1
Iron	56		0.40	0.20	mg/L		03/23/16 14:49	03/25/16 00:44	1
Lead	0.089		0.0075	0.0075	mg/L		03/23/16 14:49	03/25/16 18:21	1
Manganese	1.2		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:44	1
Nickel	0.036		0.025	0.010	mg/L		03/23/16 14:49	03/25/16 00:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:49	03/25/16 00:44	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: R70-7(0-1)-031416

Lab Sample ID: 500-108761-4

Date Collected: 03/14/16 10:40

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 14:49	03/25/16 00:44	1
Zinc	0.41	J B	0.50	0.020	mg/L		03/23/16 14:49	03/25/16 00:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.23	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Arsenic	2.2		0.56	0.26	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Barium	24		0.56	0.10	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Beryllium	0.19	J	0.22	0.049	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Cadmium	0.089	J	0.11	0.032	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Calcium	47000	B	110	36	mg/Kg	☼	03/17/16 14:03	03/25/16 22:14	10
Chromium	4.4		0.56	0.096	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Cobalt	2.8		0.28	0.063	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Copper	4.4		0.56	0.12	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Iron	6500		11	4.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Lead	17		0.28	0.14	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Magnesium	11000	B ^	5.6	2.3	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Manganese	270		0.56	0.11	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Nickel	4.9		0.56	0.15	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Potassium	450		28	4.6	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Selenium	0.40	J	0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Sodium	420	B	56	7.4	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Vanadium	8.0		0.28	0.082	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	1
Zinc	40		1.1	0.35	mg/Kg	☼	03/17/16 14:03	03/25/16 05:43	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		03/23/16 09:00	03/23/16 17:33	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		03/23/16 17:00	03/24/16 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		18	9.4	ug/Kg	☼	03/21/16 15:30	03/22/16 23:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/17/16 13:12	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

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-108761 COC

Report To (optional)
Contact: S. Babunghuman
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 1 of 4
Temperature °C of Cooler: 2.3, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Project Name		Lab Project #		Sampling		# of Containers	Matrix	NOCs	SNOCs	Total Metals	TAP/SAP Metals	PH
Project Location/State		Lab PM		Date	Time							
T. Weston		D. Wright		3-14-16		2	S	X	X	X	X	X
IDOT-040		D. Wright		1005								
Bridgeway Center Park				1020								
T. Walls				1030								
				1040								
				1050								
				1100								
				1110								
				1125								
				1145								
				3-14-16		2	S	X	X	X	X	X

- 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>Zanick</u> Company <u>Weston</u>	Date <u>3-14-16</u>	Time <u>16:45</u>	Received By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>16:45</u>
Relinquished By <u>Daniel Bedan</u> Company <u>TA</u>	Date <u>3-14-16</u>	Time <u>17:25</u>	Received By <u>Shawn Scott</u> Company <u>TA-CAT</u>	Date <u>3/15/16</u>	Time <u>0725</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: _____
 Lab Comments: _____



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

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

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

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

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

I. Source Location Information

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

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

Physical Site Location (address, including number and street):
21045 W. IL 113, (ISGS Site No. 2948-72)

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: 41.240319601 Longitude: -88.116382661
(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: 41.240319601 Longitude: -88.116382661

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 R72-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-72. SEE FIGURE 3-10 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: 500-108491-1.
ALSO SEE FIGURE 4-10 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. 2948-72
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	R72-1(0-1)-030816	Soil Reference Concentrations
Sample Date	3/8/2016	
Location ID	R72-1	
Depth	0 - 1	
Location Code	2948-72	
Parameter		
Laboratory pH	8.71	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	650 J	900 / 1100 / 1800
Benzo(a)pyrene	810 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1400 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	110 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	450 J	900 / 900 / 1600
Total Metals (mg/kg)		
Arsenic, Total	1.6	11.3 / 13
Barium, Total	25	1500
Beryllium, Total	0.24	22
Cadmium, Total	0.22	5.2
Calcium, Total	86000 J-	---
Chromium, Total	5.3 B	21
Iron, Total	5800 J+	15000 / 15900
Lead, Total	28 J-	107
Manganese, Total	280 J-	630 / 636
Mercury, Total	0.031	0.89
Nickel, Total	5.2	100
Potassium, Total	490 J+	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	37	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.32 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0031 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	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	2.5 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.15 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.023 J	0.1
Iron, SPLP	17	5
Lead, SPLP	0.1	0.0075
Manganese, SPLP	0.41	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	0.22 J	5

Summary Table of ISGS Site No. 2948-72
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.

^A - 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: 500-108491-1
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 8:52:28 AM

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

LINKS

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results through
TotalAccess

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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: 500-108491-1

Client Sample ID: R72-1(0-1)-030816

Lab Sample ID: 500-108491-7

Date Collected: 03/08/16 15:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	☼		03/10/16 02:57	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:57	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 02:57	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:57	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 02:57	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 02:57	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:57	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 02:57	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:57	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:57	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 02:57	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:57	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/10/16 02:57	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:57	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:57	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:57	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:57	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 02:57	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 02:57	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:57	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:57	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/10/16 02:57	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:57	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:57	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:57	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:57	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:57	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:57	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:57	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/10/16 02:57	1
Dibromofluoromethane	109		75 - 120		03/10/16 02:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/10/16 02:57	1
Toluene-d8 (Surr)	104		75 - 122		03/10/16 02:57	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	☼	03/10/16 07:07	03/13/16 21:27	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R72-1(0-1)-030816

Lab Sample ID: 500-108491-7

Date Collected: 03/08/16 15:00

Matrix: Solid

Date Received: 03/08/16 16:45

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,4-Dimethylphenol	<370	*	370	140	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Methylnaphthalene	7.3	J	37	6.8	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Acenaphthene	14	J	37	6.6	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Acenaphthylene	37		37	4.9	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Anthracene	61		37	6.2	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Benzo[a]anthracene	650	*	37	5.0	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Benzo[a]pyrene	810	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Benzo[b]fluoranthene	1400	*	37	8.0	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Benzo[g,h,i]perylene	370	*	37	12	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Benzo[k]fluoranthene	490	*	37	11	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Bis(2-ethylhexyl) phthalate	<190	*	190	67	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Chrysene	630	*	37	10	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Dibenz(a,h)anthracene	110	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Fluoranthene	680		37	6.8	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Fluorene	15	J	37	5.2	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R72-1(0-1)-030816

Lab Sample ID: 500-108491-7

Date Collected: 03/08/16 15:00

Matrix: Solid

Date Received: 03/08/16 16:45

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	450	*	37	9.6	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Phenanthrene	230		37	5.1	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Pyrene	1700	*	37	7.3	ug/Kg	☼	03/10/16 07:07	03/13/16 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				03/10/16 07:07	03/13/16 21:27	1
2-Fluorobiphenyl	76		25 - 119				03/10/16 07:07	03/13/16 21:27	1
2-Fluorophenol	78		25 - 110				03/10/16 07:07	03/13/16 21:27	1
Nitrobenzene-d5	64		25 - 115				03/10/16 07:07	03/13/16 21:27	1
Phenol-d5	71		31 - 110				03/10/16 07:07	03/13/16 21:27	1
Terphenyl-d14	182	X *	36 - 134				03/10/16 07:07	03/13/16 21:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Barium	0.32	J	0.50	0.050	mg/L		03/11/16 14:59	03/14/16 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/11/16 14:59	03/14/16 12:33	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		03/11/16 14:59	03/14/16 12:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Copper	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Iron	<0.40		0.40	0.20	mg/L		03/11/16 14:59	03/14/16 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/11/16 14:59	03/14/16 12:33	1
Manganese	1.5		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/11/16 14:59	03/14/16 12:33	1
Silver	<0.025		0.025	0.010	mg/L		03/11/16 14:59	03/14/16 12:33	1
Zinc	2.5	B	0.50	0.020	mg/L		03/11/16 14:59	03/14/16 12:33	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		03/13/16 15:00	03/15/16 00:39	1
Barium	0.15	J	0.50	0.050	mg/L		03/13/16 15:00	03/15/16 00:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/15/16 00:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/15/16 00:39	1
Chromium	0.023	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:39	1
Copper	0.015	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:39	1
Iron	17		0.40	0.20	mg/L		03/13/16 15:00	03/15/16 00:39	1
Lead	0.10		0.0075	0.0075	mg/L		03/13/16 15:00	03/15/16 00:39	1
Manganese	0.41		0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:39	1
Nickel	0.017	J	0.025	0.010	mg/L		03/13/16 15:00	03/15/16 00:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/15/16 00:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108491-1

Client Sample ID: R72-1(0-1)-030816

Lab Sample ID: 500-108491-7

Date Collected: 03/08/16 15:00

Matrix: Solid

Date Received: 03/08/16 16:45

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		03/13/16 15:00	03/15/16 00:39	1
Zinc	0.22	J	0.50	0.020	mg/L		03/13/16 15:00	03/15/16 00:39	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	☼	03/10/16 15:40	03/11/16 15:16	1
Arsenic	1.6		0.55	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Barium	25		0.55	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Beryllium	0.24		0.22	0.048	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Cadmium	0.22		0.11	0.032	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Calcium	86000	B	110	35	mg/Kg	☼	03/10/16 15:40	03/11/16 16:53	10
Chromium	5.3	B	0.55	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Cobalt	2.4		0.27	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Copper	3.3		0.55	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Iron	5800	B	11	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Lead	28		0.27	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Magnesium	38000	B	5.5	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Manganese	280		0.55	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Nickel	5.2		0.55	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Potassium	490		27	4.5	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Sodium	470		55	7.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Vanadium	6.5		0.27	0.080	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	1
Zinc	37		1.1	0.35	mg/Kg	☼	03/10/16 15:40	03/11/16 15:16	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		03/13/16 16:00	03/14/16 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 13:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31		18	9.5	ug/Kg	☼	03/15/16 16:45	03/16/16 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			03/10/16 15:06	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108491-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
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.
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: 500-108491-1

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



500-108491 COC

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

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

Chain of Custody Record

Lab Job #: 500-108491

Chain of Custody Number: _____

Page 1 of _____

Temperature °C of Cooler: 24

Client		Client Project #		Preservative		Parameter		Comments				
Weston Solutions Inc.		02056-014-040-0030		7	7	7	7	7	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Matrix		Matrix		Comments				
IDOT 040 - IL Route 113				VOCs		SVOCs						
Braidwood, IL				TOTAL METALS		TURBIDITY						
Sampler		Lab PM		# of Containers		Matrix		Comments				
M. Doherty-Slabic		D. Wright		2		S						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TURBIDITY	PH	Comments
1		AL67-3(0-1)-030816	3-8-16	1400	2	S	X	X	X	X	X	
2		AL67-3(0-1)-030816		1400	2	S	X	X	X	X	X	
3		F69-1(0-1)-030816		1410	2	S	X	X	X	X	X	
4		R70-1(0-1)-030816		1420	2	S	X	X	X	X	X	
5		R71-1(0-1)-030816		1440	2	S	X	X	X	X	X	
6		R70-2(0-1)-030816		1450	2	S	X	X	X	X	X	
7		R72-1(0-1)-030816	✓	1500	2	S	X	X	X	X	X	
		WL75-1(0-1)-030816	3-8-16		2	S	X	X	X	X	X	MDS
		*LAST ITEM										MDS

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Per Contract Other Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>S. Babusukumar</u>	Company <u>Weston</u>	Date <u>3-8-2016</u>	Time <u>1500</u>	Received By <u>[Signature]</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-CRT</u>	Date <u>3/8/16</u>	Time <u>1645</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier	<u>TA</u>
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):
20837-21050 W. IL 113 (ISGS Site No. 2948-74)

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: 41.238680387 Longitude: -88.112830529
(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: 41.238680387 Longitude: -88.112830529

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 R74-1 THROUGH R74-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-74. SEE FIGURES 3-10/3-11 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 IDs: 500-108577-1 AND 500-108729-1. ALSO SEE FIGURES 4-10 AND 4-11 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. 2948-74
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	R74-1(0-1)-030916	R74-2(0-1)-030916	R74-3(0-1)-030916	R74-4(0-1)-030916	R74-5(0-1)-031116	R74-6(0-1)-031116	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/11/2016	3/11/2016	
Location ID	R74-1	R74-2	R74-3	R74-4	R74-5	R74-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-74	2948-74	2948-74	2948-74	2948-74	2948-74	
Parameter							
Laboratory pH	7.88	8.2	7.93	7.72	8.71	8.28	<6.25,>9.0
VOCs (ug/kg)	None Detected						
SVOCs (ug/kg)							
Benzo(a)anthracene	690	ND	60	ND	ND	26 J	900 / 1100 / 1800
Benzo(a)pyrene	860 J	ND	80 J	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	1400 J	ND	130 J	ND	ND	42 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	81 J	ND	ND	ND	ND	ND	90
Indeno(1,2,3-cd)pyrene	390 J	ND	29 J	ND	ND	ND	900 / 900 / 1600
Total Metals (mg/kg)							
Arsenic, Total	2	2	1.7	3	2.1 J	1.7 J	11.3 / 13
Barium, Total	34	36	26	58	27	21	1500
Beryllium, Total	0.23	0.23	0.16 J	0.3	0.21	0.22	22
Cadmium, Total	0.067 J	0.087 J	0.16	0.17	0.069 J	0.046 J	5.2
Calcium, Total	19000 J	1600 J	18000 J	3300 J	19000 J	18000 J	---
Chromium, Total	5.3	5.3	4.3	6.4	4.9	4.5	21
Iron, Total	7200 J+	7200 J+	5400 J+	10000 J+	8100 J	5400 J	15000 / 15900
Lead, Total	12 J	6.3 J	21 J	11 J	6	9.2	107
Manganese, Total	270 J+	320 J+	190 J+	640 J+	330 J-	190 J-	630 / 636
Mercury, Total	0.0097 J	ND	0.018	0.018 J	0.011 J	0.0097 J	0.89
Nickel, Total	4.8	5	4.8	7	5.4 J	4.7 J	100
Potassium, Total	460 J+	380 J+	420 J+	530 J+	420	380	---
Selenium, Total	ND	0.31 J	0.46 J	0.63	0.62	0.39 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	21	26	28	44	20	17	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.25 J	0.19 J	0.26 J	0.26 J	0.22 J	0.24 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	0.36 J	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.81	0.076	1.2	0.081	0.95	1.7	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	ND	ND	ND	ND	0.45 J	1.2	5

Summary Table of ISGS Site No. 2948-74
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	R74-1(0-1)-030916	R74-2(0-1)-030916	R74-3(0-1)-030916	R74-4(0-1)-030916	R74-5(0-1)-031116	R74-6(0-1)-031116	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/11/2016	3/11/2016	
Location ID	R74-1	R74-2	R74-3	R74-4	R74-5	R74-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-74	2948-74	2948-74	2948-74	2948-74	2948-74	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	ND	ND	ND	0.011 J	ND	ND	0.05
Barium, SPLP	0.15 J	0.23 J	0.13 J	0.25 J	0.12 J	0.11 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.022 J	0.035	0.02 J	0.042	0.026	0.021 J	0.1
Iron, SPLP	20	38	16	48	29 J+	18 J+	5
Lead, SPLP	0.036 J	0.028 J	0.044 J	0.028 J	0.03	0.047	0.0075
Manganese, SPLP	0.59	1	0.38	0.94	0.54	0.51	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.014 J	0.026	0.014 J	0.027	0.019 J	0.017 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	1.2	0.37 J	1.9	0.31 J	0.091 J	0.081 J	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

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

LINKS

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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: 500-108577-1

Client Sample ID: R74-1(0-1)-030916

Lab Sample ID: 500-108577-2

Date Collected: 03/09/16 08:40

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 12:00	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/12/16 12:00	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:00	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:00	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/12/16 12:00	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:00	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:00	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/12/16 12:00	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/12/16 12:00	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:00	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 12:00	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:00	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:00	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/12/16 12:00	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/12/16 12:00	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:00	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/12/16 12:00	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:00	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:00	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:00	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:00	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:00	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:00	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 12:00	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:00	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/12/16 12:00	1
Dibromofluoromethane	110		75 - 120		03/12/16 12:00	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/12/16 12:00	1
Toluene-d8 (Surr)	116		75 - 122		03/12/16 12:00	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	☼	03/11/16 14:52	03/17/16 15:31	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-1(0-1)-030916

Lab Sample ID: 500-108577-2

Date Collected: 03/09/16 08:40

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Methylnaphthalene	48		37	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Acenaphthene	190		37	6.8	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Acenaphthylene	100		37	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Anthracene	270		37	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Benzo[a]anthracene	690		37	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Benzo[a]pyrene	860	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Benzo[b]fluoranthene	1400	*	37	8.1	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Benzo[g,h,i]perylene	350	*	37	12	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Benzo[k]fluoranthene	540	*	37	11	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Carbazole	<190		190	94	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Chrysene	720		37	10	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Dibenz(a,h)anthracene	81	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Dibenzofuran	110	J	190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Fluoranthene	1500		37	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Fluorene	160		37	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-1(0-1)-030916

Lab Sample ID: 500-108577-2

Date Collected: 03/09/16 08:40

Matrix: Solid

Date Received: 03/09/16 16:45

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	390	*	37	9.7	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Naphthalene	85		37	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Phenanthrene	1100		37	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Phenol	<190		190	83	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Pyrene	2000		37	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		35 - 137				03/11/16 14:52	03/17/16 15:31	1
2-Fluorobiphenyl	91		25 - 119				03/11/16 14:52	03/17/16 15:31	1
2-Fluorophenol	104		25 - 110				03/11/16 14:52	03/17/16 15:31	1
Nitrobenzene-d5	81		25 - 115				03/11/16 14:52	03/17/16 15:31	1
Phenol-d5	101		31 - 110				03/11/16 14:52	03/17/16 15:31	1
Terphenyl-d14	145	X	36 - 134				03/11/16 14:52	03/17/16 15:31	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		03/19/16 12:25	03/19/16 23:15	1
Barium	0.25	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:15	1
Manganese	0.81		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:15	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:15	1
Zinc	0.92		0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:15	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		03/18/16 15:11	03/19/16 17:41	1
Barium	0.15	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 17:41	1
Chromium	0.022	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:41	1
Copper	0.012	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:41	1
Iron	20		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 17:41	1
Lead	0.036		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 17:41	1
Manganese	0.59		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:41	1
Nickel	0.014	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 17:41	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-1(0-1)-030916

Lab Sample ID: 500-108577-2

Date Collected: 03/09/16 08:40

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 17:41	1
Zinc	1.2		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 17:41	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	☼	03/16/16 08:31	03/18/16 05:03	1
Arsenic	2.0		0.55	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Barium	34		0.55	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Beryllium	0.23		0.22	0.048	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Cadmium	0.067	J	0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Calcium	19000	B	11	3.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:01	1
Chromium	5.3		0.55	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Cobalt	3.1		0.28	0.063	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Copper	4.2		0.55	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Iron	7200	B	11	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:01	1
Lead	12		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Magnesium	12000	B	5.5	2.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:01	1
Manganese	270		0.55	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Potassium	460		28	4.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:01	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Sodium	680		55	7.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:01	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Vanadium	12		0.28	0.081	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	1
Zinc	21		1.1	0.35	mg/Kg	☼	03/16/16 08:31	03/18/16 05:03	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		03/19/16 18:45	03/21/16 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.7	J	18	9.5	ug/Kg	☼	03/17/16 13:00	03/18/16 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			03/12/16 10:09	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-2(0-1)-030916

Lab Sample ID: 500-108577-3

Date Collected: 03/09/16 09:25

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 12:26	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:26	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/12/16 12:26	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:26	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:26	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/12/16 12:26	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:26	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:26	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/12/16 12:26	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/12/16 12:26	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:26	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 12:26	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:26	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/12/16 12:26	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/12/16 12:26	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:26	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:26	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/12/16 12:26	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:26	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:26	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:26	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:26	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:26	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:26	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:26	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/12/16 12:26	1
Dibromofluoromethane	108		75 - 120		03/12/16 12:26	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 12:26	1
Toluene-d8 (Surr)	117		75 - 122		03/12/16 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	<190		190	41	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-2(0-1)-030916

Lab Sample ID: 500-108577-3

Date Collected: 03/09/16 09:25

Matrix: Solid

Date Received: 03/09/16 16:45

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	<380		380	87	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,4-Dinitrophenol	<770 *		770	670	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Carbazole	<190		190	95	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Chrysene	<38		38	10	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-2(0-1)-030916

Lab Sample ID: 500-108577-3

Date Collected: 03/09/16 09:25

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 87.0

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	☼	03/11/16 14:52	03/17/16 14:04	1
Isophorone	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Phenol	<190		190	84	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1
Pyrene	<38		38	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137	03/11/16 14:52	03/17/16 14:04	1
2-Fluorobiphenyl	76		25 - 119	03/11/16 14:52	03/17/16 14:04	1
2-Fluorophenol	92		25 - 110	03/11/16 14:52	03/17/16 14:04	1
Nitrobenzene-d5	70		25 - 115	03/11/16 14:52	03/17/16 14:04	1
Phenol-d5	89		31 - 110	03/11/16 14:52	03/17/16 14:04	1
Terphenyl-d14	90		36 - 134	03/11/16 14:52	03/17/16 14:04	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		03/19/16 12:25	03/19/16 23:20	1
Barium	0.19	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Iron	0.36	J	0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:20	1
Manganese	0.076		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:20	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:20	1
Zinc	0.069	J	0.50	0.020	mg/L		03/19/16 12:25	03/19/16 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		03/18/16 15:11	03/19/16 17:53	1
Barium	0.23	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 17:53	1
Chromium	0.035		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:53	1
Copper	0.020	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:53	1
Iron	38		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 17:53	1
Lead	0.028		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 17:53	1
Manganese	1.0		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:53	1
Nickel	0.026		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 17:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-2(0-1)-030916

Lab Sample ID: 500-108577-3

Date Collected: 03/09/16 09:25

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 17:53	1
Zinc	0.37	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 17:53	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	☼	03/16/16 08:31	03/18/16 05:07	1
Arsenic	2.0		0.55	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Barium	36		0.55	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Beryllium	0.23		0.22	0.048	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Cadmium	0.087	J	0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Calcium	1600	B	11	3.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:06	1
Chromium	5.3		0.55	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Cobalt	2.9		0.28	0.062	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Copper	3.3		0.55	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Iron	7200	B	11	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:06	1
Lead	6.3		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Magnesium	1100	B	5.5	2.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:06	1
Manganese	320		0.55	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Nickel	5.0		0.55	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Potassium	380		28	4.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:06	1
Selenium	0.31	J	0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Sodium	220		55	7.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:06	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Vanadium	11		0.28	0.080	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	1
Zinc	26		1.1	0.35	mg/Kg	☼	03/16/16 08:31	03/18/16 05:07	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		03/19/16 18:45	03/21/16 09:01	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		03/18/16 17:45	03/19/16 14:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	10	ug/Kg	☼	03/17/16 13:00	03/18/16 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			03/12/16 10:14	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-3(0-1)-030916

Lab Sample ID: 500-108577-4

Date Collected: 03/09/16 09:35

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/12/16 12:51	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/12/16 12:51	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:51	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:51	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/12/16 12:51	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:51	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:51	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/12/16 12:51	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/12/16 12:51	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 12:51	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 12:51	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:51	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:51	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/12/16 12:51	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/12/16 12:51	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:51	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/12/16 12:51	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 12:51	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 12:51	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 12:51	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 12:51	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 12:51	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 12:51	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 12:51	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/12/16 12:51	1
Dibromofluoromethane	113		75 - 120		03/12/16 12:51	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		03/12/16 12:51	1
Toluene-d8 (Surr)	116		75 - 122		03/12/16 12:51	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	☼	03/11/16 14:52	03/17/16 16:00	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-3(0-1)-030916

Lab Sample ID: 500-108577-4

Date Collected: 03/09/16 09:35

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.3

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	86	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Acenaphthylene	13	J	37	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Anthracene	6.5	J	37	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Benzo[a]anthracene	60		37	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Benzo[a]pyrene	80	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Benzo[b]fluoranthene	130	*	37	8.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Benzo[g,h,i]perylene	29	J *	37	12	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Benzo[k]fluoranthene	65	*	37	11	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Bis(2-ethylhexyl) phthalate	75	J	190	69	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Carbazole	<190		190	94	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Chrysene	75		37	10	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Dibenz(a,h)anthracene	<37	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Fluoranthene	91		37	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-3(0-1)-030916

Lab Sample ID: 500-108577-4

Date Collected: 03/09/16 09:35

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.3

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	29	J*	37	9.7	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Phenanthrene	50		37	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Phenol	<190		190	83	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Pyrene	140		37	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137				03/11/16 14:52	03/17/16 16:00	1
2-Fluorobiphenyl	72		25 - 119				03/11/16 14:52	03/17/16 16:00	1
2-Fluorophenol	85		25 - 110				03/11/16 14:52	03/17/16 16:00	1
Nitrobenzene-d5	64		25 - 115				03/11/16 14:52	03/17/16 16:00	1
Phenol-d5	81		31 - 110				03/11/16 14:52	03/17/16 16:00	1
Terphenyl-d14	126		36 - 134				03/11/16 14:52	03/17/16 16:00	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		03/19/16 12:25	03/19/16 23:25	1
Barium	0.26	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:25	1
Manganese	1.2		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:25	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:25	1
Zinc	0.26	J	0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:25	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		03/18/16 15:11	03/19/16 17:58	1
Barium	0.13	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 17:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 17:58	1
Chromium	0.020	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:58	1
Copper	0.013	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:58	1
Iron	16		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 17:58	1
Lead	0.044		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 17:58	1
Manganese	0.38		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:58	1
Nickel	0.014	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 17:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-3(0-1)-030916

Lab Sample ID: 500-108577-4

Date Collected: 03/09/16 09:35

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.3

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		03/18/16 15:11	03/19/16 17:58	1
Zinc	1.9		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 17:58	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	☼	03/16/16 08:31	03/18/16 05:11	1
Arsenic	1.7		0.55	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Barium	26		0.55	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Beryllium	0.16	J	0.22	0.048	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Cadmium	0.16		0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Calcium	18000	B	11	3.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:10	1
Chromium	4.3		0.55	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Cobalt	2.1		0.28	0.062	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Copper	4.4		0.55	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Iron	5400	B	11	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:10	1
Lead	21		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Magnesium	11000	B	5.5	2.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:10	1
Manganese	190		0.55	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Potassium	420		28	4.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:10	1
Selenium	0.46	J	0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Sodium	280		55	7.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:10	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Vanadium	7.3		0.28	0.080	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	1
Zinc	28		1.1	0.35	mg/Kg	☼	03/16/16 08:31	03/18/16 05:11	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		03/19/16 18:45	03/21/16 09:03	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		03/18/16 17:45	03/19/16 14:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	9.4	ug/Kg	☼	03/17/16 13:00	03/18/16 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			03/12/16 10:19	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-4(0-1)-030916

Lab Sample ID: 500-108577-5

Date Collected: 03/09/16 09:50

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 13:17	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:17	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/12/16 13:17	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/12/16 13:17	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/12/16 13:17	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:17	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/12/16 13:17	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:17	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/12/16 13:17	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/12/16 13:17	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/12/16 13:17	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:17	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/12/16 13:17	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:17	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/12/16 13:17	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/12/16 13:17	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/12/16 13:17	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/12/16 13:17	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:17	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/12/16 13:17	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:17	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/12/16 13:17	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/12/16 13:17	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/12/16 13:17	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:17	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		03/12/16 13:17	1
Dibromofluoromethane	108		75 - 120		03/12/16 13:17	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/12/16 13:17	1
Toluene-d8 (Surr)	116		75 - 122		03/12/16 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	<200		200	42	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-4(0-1)-030916

Lab Sample ID: 500-108577-5

Date Collected: 03/09/16 09:50

Matrix: Solid

Date Received: 03/09/16 16:45

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	<390		390	89	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Carbazole	<200		200	97	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Chrysene	<39		39	11	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Fluoranthene	8.5	J	39	7.2	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-4(0-1)-030916

Lab Sample ID: 500-108577-5

Date Collected: 03/09/16 09:50

Matrix: Solid

Date Received: 03/09/16 16:45

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	<39		39	10	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Isophorone	<200		200	44	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Phenanthrene	12	J	39	5.4	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Phenol	<200		200	87	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1
Pyrene	14	J	39	7.7	ug/Kg	☼	03/11/16 14:52	03/17/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137	03/11/16 14:52	03/17/16 14:34	1
2-Fluorobiphenyl	63		25 - 119	03/11/16 14:52	03/17/16 14:34	1
2-Fluorophenol	73		25 - 110	03/11/16 14:52	03/17/16 14:34	1
Nitrobenzene-d5	55		25 - 115	03/11/16 14:52	03/17/16 14:34	1
Phenol-d5	77		31 - 110	03/11/16 14:52	03/17/16 14:34	1
Terphenyl-d14	82		36 - 134	03/11/16 14:52	03/17/16 14:34	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		03/19/16 12:25	03/19/16 23:31	1
Barium	0.26	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:31	1
Manganese	0.081		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:31	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:31	1
Zinc	0.078	J	0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Barium	0.25	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:02	1
Chromium	0.042		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Copper	0.027		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Iron	48		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:02	1
Lead	0.028		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:02	1
Manganese	0.94		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Nickel	0.027		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: R74-4(0-1)-030916

Lab Sample ID: 500-108577-5

Date Collected: 03/09/16 09:50

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 18:02	1
Zinc	0.31	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:02	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	☼	03/16/16 08:31	03/18/16 05:16	1
Arsenic	3.0		0.56	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Barium	58		0.56	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Beryllium	0.30		0.22	0.049	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Cadmium	0.17		0.11	0.033	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Calcium	3300	B	11	3.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:15	1
Chromium	6.4		0.56	0.097	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Cobalt	4.6		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Copper	6.0		0.56	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Iron	10000	B	11	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:15	1
Lead	11		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Magnesium	1800	B	5.6	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:15	1
Manganese	640		0.56	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Nickel	7.0		0.56	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Potassium	530		28	4.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:15	1
Selenium	0.63		0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Sodium	330		56	7.4	mg/Kg	☼	03/16/16 08:31	03/18/16 20:15	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Vanadium	12		0.28	0.082	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	1
Zinc	44		1.1	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 05:16	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		03/19/16 18:45	03/21/16 09:09	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		03/18/16 17:45	03/19/16 14:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18	J	19	10	ug/Kg	☼	03/17/16 13:00	03/18/16 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			03/12/16 10:24	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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



500-108577 COC

Report To (optional)
Contact: S. Doherty-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 #: 500-108577
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.3

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Weston Solutions		02056-014-0400030		7	7	7	7	7	Comments	
Project Name IDOT 040-IL Route 113		Lab Project #		Parameter		Matrix		Matrix		
Project Location/State Braidwood, IL		Lab Project #		Parameter		Matrix		Matrix		Comments
Sampler M. Doherty-Kumar		Lab PM D. Wright		Parameter		Matrix		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Matrix	Comments
1		WL75-1(0-1)-030916	3-9-16	0830	2 S	S	VOCS	S	S	
2		R74-1(0-1)-030916		0840		S	SVOCs	S	S	
3		R74-2(0-1)-030916		0925		S	TOTAL METALS	S	S	
4		R74-3(0-1)-030916		0935		S	TOTAL METALS	S	S	
5		R74-4(0-1)-030916		0950		S	TOTAL METALS	S	S	
6		GL77-1(0-1)-030916		1012		S	PH	S	S	
7		GL77-1(0-1)-030916		1012		S	PH	S	S	
8		GL77-2(0-1)-030916		1030		S	PH	S	S	
9		GL77-3(0-1)-030916		1042		S	PH	S	S	
10		GL77-4(0-1)-030916	3-9-16	1050	2 S	S	PH	S	S	

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 Weston	Date 3-9-2016	Time 1533	Received By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1533
Relinquished By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1645	Received By <u>[Signature]</u>	Company TVA-CHT	Date 3/9/16	Time 1645
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TVA
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: 500-108729-1
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:
3/25/2016 4:31:05 PM

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

LINKS

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results through
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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: 500-108729-1

Client Sample ID: R74-5(0-1)-031116

Lab Sample ID: 500-108729-13

Date Collected: 03/11/16 13:45

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/16/16 10:40	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:40	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/16/16 10:40	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:40	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:40	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:40	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/16/16 10:40	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/16/16 10:40	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 10:40	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:40	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 10:40	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 10:40	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 10:40	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 10:40	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/16/16 10:40	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:40	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/16/16 10:40	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:40	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/16/16 10:40	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 10:40	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 10:40	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:40	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 10:40	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:40	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/16/16 10:40	1
Dibromofluoromethane	109		75 - 120		03/16/16 10:40	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/16/16 10:40	1
Toluene-d8 (Surr)	105		75 - 122		03/16/16 10:40	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	☼	03/16/16 17:37	03/23/16 19:17	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-5(0-1)-031116

Lab Sample ID: 500-108729-13

Date Collected: 03/11/16 13:45

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.8

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	☼	03/16/16 17:37	03/23/16 19:17	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,4-Dinitrophenol	<730	*	730	630	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Carbazole	<180		180	90	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Chrysene	<36		36	9.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-5(0-1)-031116

Lab Sample ID: 500-108729-13

Date Collected: 03/11/16 13:45

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.8

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	☼	03/16/16 17:37	03/23/16 19:17	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Phenol	<180		180	80	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/16/16 17:37	03/23/16 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		35 - 137				03/16/16 17:37	03/23/16 19:17	1
2-Fluorobiphenyl	90		25 - 119				03/16/16 17:37	03/23/16 19:17	1
2-Fluorophenol	89		25 - 110				03/16/16 17:37	03/23/16 19:17	1
Nitrobenzene-d5	89		25 - 115				03/16/16 17:37	03/23/16 19:17	1
Phenol-d5	89		31 - 110				03/16/16 17:37	03/23/16 19:17	1
Terphenyl-d14	92		36 - 134				03/16/16 17:37	03/23/16 19:17	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		03/22/16 08:08	03/24/16 19:08	1
Barium	0.22	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 19:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Copper	0.011	J	0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 19:08	1
Manganese	0.95		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 19:08	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:08	1
Zinc	0.45	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 19:08	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 08:19	03/24/16 19:44	1
Barium	0.12	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:44	1
Chromium	0.026		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:44	1
Copper	0.017	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:44	1
Iron	29		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:44	1
Lead	0.030		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:44	1
Manganese	0.54		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:44	1
Nickel	0.019	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:44	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-5(0-1)-031116

Lab Sample ID: 500-108729-13

Date Collected: 03/11/16 13:45

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.8

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 08:19	03/24/16 19:44	1
Zinc	0.091	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:44	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 15:42	03/24/16 00:14	1
Arsenic	2.1		0.53	0.24	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Barium	27		0.53	0.096	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Beryllium	0.21		0.21	0.046	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Cadmium	0.069	J	0.11	0.030	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Calcium	19000		11	3.4	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Chromium	4.9		0.53	0.090	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Cobalt	3.0		0.26	0.059	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Copper	4.0	B	0.53	0.11	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Iron	8100	B	11	4.1	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Lead	6.0		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Magnesium	11000		5.3	2.1	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Manganese	330		0.53	0.10	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Nickel	5.4		0.53	0.14	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Potassium	420		26	4.3	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Selenium	0.62		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Sodium	370	B	53	6.9	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Vanadium	10		0.26	0.077	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	1
Zinc	20		1.1	0.33	mg/Kg	☼	03/17/16 15:42	03/24/16 00:14	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		03/21/16 18:30	03/22/16 16:43	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 09:00	03/23/16 17:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	J	17	8.8	ug/Kg	☼	03/21/16 15:30	03/22/16 22:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			03/16/16 14:05	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-6(0-1)-031116

Lab Sample ID: 500-108729-14

Date Collected: 03/11/16 14:00

Matrix: Solid

Date Received: 03/11/16 16:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/16/16 11:07	1
Dibromofluoromethane	109		75 - 120		03/16/16 11:07	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/16/16 11:07	1
Toluene-d8 (Surr)	106		75 - 122		03/16/16 11:07	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	☼	03/16/16 17:37	03/25/16 01:14	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-6(0-1)-031116

Lab Sample ID: 500-108729-14

Date Collected: 03/11/16 14:00

Matrix: Solid

Date Received: 03/11/16 16:20

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	<360		360	84	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,4-Dinitrophenol	<740	*	740	640	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Benzo[a]anthracene	26	J *	36	4.9	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Benzo[a]pyrene	<36	*	36	7.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Benzo[b]fluoranthene	42	*	36	7.9	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Benzo[k]fluoranthene	19	J *	36	11	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Carbazole	<180		180	91	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Chrysene	36	*	36	10	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Fluoranthene	20	J	36	6.8	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-6(0-1)-031116

Lab Sample ID: 500-108729-14

Date Collected: 03/11/16 14:00

Matrix: Solid

Date Received: 03/11/16 16:20

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	<36	*	36	9.5	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Isophorone	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Phenanthrene	12	J	36	5.1	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Phenol	<180		180	81	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Pyrene	100	*	36	7.3	ug/Kg	☼	03/16/16 17:37	03/25/16 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	35		35 - 137				03/16/16 17:37	03/25/16 01:14	1
2-Fluorobiphenyl	97		25 - 119				03/16/16 17:37	03/25/16 01:14	1
2-Fluorophenol	112	X	25 - 110				03/16/16 17:37	03/25/16 01:14	1
Nitrobenzene-d5	91		25 - 115				03/16/16 17:37	03/25/16 01:14	1
Phenol-d5	88		31 - 110				03/16/16 17:37	03/25/16 01:14	1
Terphenyl-d14	206	X*	36 - 134				03/16/16 17:37	03/25/16 01:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 19:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 19:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 19:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 19:13	1
Manganese	1.7		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 19:13	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:13	1
Zinc	1.2		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 19:13	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		03/23/16 08:19	03/24/16 19:56	1
Barium	0.11	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:56	1
Chromium	0.021	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:56	1
Copper	0.014	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:56	1
Iron	18		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:56	1
Lead	0.047		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:56	1
Manganese	0.51		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:56	1
Nickel	0.017	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: R74-6(0-1)-031116

Lab Sample ID: 500-108729-14

Date Collected: 03/11/16 14:00

Matrix: Solid

Date Received: 03/11/16 16:20

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 08:19	03/24/16 19:56	1
Zinc	0.081	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:56	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	☼	03/17/16 15:42	03/24/16 00:19	1
Arsenic	1.7		0.55	0.25	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Barium	21		0.55	0.10	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Beryllium	0.22		0.22	0.048	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Cadmium	0.046	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Calcium	18000		11	3.5	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Chromium	4.5		0.55	0.095	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Cobalt	2.6		0.28	0.062	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Copper	2.9	B	0.55	0.12	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Iron	5400	B	11	4.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Lead	9.2		0.28	0.14	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Magnesium	11000		5.5	2.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Manganese	190		0.55	0.11	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Nickel	4.7		0.55	0.15	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Potassium	380		28	4.5	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Selenium	0.39	J	0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Sodium	370	B	55	7.3	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Vanadium	9.2		0.28	0.080	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	1
Zinc	17		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/24/16 00:19	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		03/21/16 18:30	03/22/16 16:45	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 09:00	03/23/16 17:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.7	J	18	9.3	ug/Kg	☼	03/21/16 15:30	03/22/16 22:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			03/16/16 14:07	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108729-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD 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
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.
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: 500-108729-1

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. Babusankumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____


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

Chain of Custody Record

Lab Job #: 500-108729
Chain of Custody Number: _____
Page 3 of 4
Temperature °C of Cooler: 4.7

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>Weston</u>													
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SLP Metals	AH	
<u>IDOT-040</u>				Date	Time								
Project Location/State		Lab PM											
<u>Braidwood & Cedar Park AZ</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/SLP Metals	AH	Comments	
1		WL8-1(0-1)-031116	3-11-16	1130	2	S	X	X	X	X	X		
2		WL8-2(0-1)-031116	↓	1140	↓	↓	↓	↓	↓	↓	↓		
3		WL76-1(0-1)-031116		1145									
4		WL76-2(0-1)-031116		1155									
5		WL76-3(0-1)-031116		1210									
6		WL76-4(0-1)-031116		1250									
7		WL76-5(0-1)-031116		1300									
8		WL76-6(0-1)-031116		1305									
9		WL76-7(0-1)-031116		1315									
10		WL76-7(0-1)-031116D		3-11-16								1315	2

Preservative Key
1. HCL, Cool to 4°
2. HCL, Cool to 4°
to 4°
to 4°
Cool to 4°



500-108729 COC

Turnaround Time Required (Business Days) _____
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>3-11-16</u> Time: <u>1515</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/11/16</u> Time: <u>1515</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/11/16</u> Time: <u>1620</u>	Received By: <u>[Signature]</u> Company: <u>TA/HL</u> Date: <u>03/11/16</u> Time: <u>16:20</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA-AM
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. Babusuluman
Company: Waste
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: SW-108729
Chain of Custody Number: _____
Page 4 of 4
Temperature °C of Cooler: 47

Client		Client Project #		Preservative		Parameter		Comments	
<u>Waste</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>JDOT-010</u>									
Project Location/State		Lab PM							
<u>Bradwood (IL)</u>		<u>D. Cough</u>							
Sampler									
<u>T. Wall</u>									
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix			
<u>11</u>		<u>WL76-8(0-1)-031116</u>	<u>3-11-16</u>	<u>1325</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>WL76-9(0-1)-031116</u>		<u>1335</u>					
<u>13</u>		<u>R74-5(0-1)-031116</u>		<u>1345</u>					
<u>14</u>		<u>R74-6(0-1)-031116</u>		<u>1400</u>					
<u>15</u>		<u>R74-7(0-1)-031116</u>		<u>1410</u>					
<u>16</u>		<u>R70-3(0-1)-031116</u>	<u>3-11-16</u>	<u>1425</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>
<u>T. Wall</u> <u>3-11-16</u>									

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Special 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>Waste</u>	Date <u>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1515</u>
Relinquished By <u>[Signature]</u>	Company <u>Waste</u>	Date <u>3/11/16</u>	Time <u>1620</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>03/11/16</u>	Time <u>16:20</u>

Lab Courier: TA-UTC
 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):
21000 block of W. IL 113, (ISGS Site No. 2948-75)

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: 41.239716673 Longitude: -88.115045172
(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: 41.239716673 Longitude: -88.115045172Uncontaminated 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 WL75-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-75. SEE FIGURE 3-10 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: 500-108577-1.
ALSO SEE FIGURE 4-10 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. 2948-75
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	WL75-1(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	
Location ID	WL75-1	
Depth	0 - 1	
Location Code	2948-75	
Parameter		
Laboratory pH	8.32	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	61	900 / 1100 / 1800
Benzo(a)pyrene	76 J	90 / 1300 / 2100
Benzo(b)fluoranthene	140 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	7.2 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	29 J	900 / 900 / 1600
Total Metals (mg/kg)		
Arsenic, Total	1.7	11.3 / 13
Barium, Total	31	1500
Beryllium, Total	0.18 J	22
Cadmium, Total	0.093 J	5.2
Calcium, Total	18000 J	---
Chromium, Total	5.4	21
Iron, Total	6300 J+	15000 / 15900
Lead, Total	18 J	107
Manganese, Total	230 J+	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.8	100
Potassium, Total	380 J+	---
Selenium, Total	0.29 J	1.3
Silver, Total	ND	4.4
Zinc, Total	27	5100
TCLP Metals (mg/l)		
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	0.63	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
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.16 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.027	0.1
Iron, SPLP	25	5
Lead, SPLP	0.032 J	0.0075
Manganese, SPLP	0.64	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.019 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	2	5

Summary Table of ISGS Site No. 2948-75
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.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

Richard Wright, Senior Project Manager
(708)534-5200
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

- 1
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Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: WL75-1(0-1)-030916

Lab Sample ID: 500-108577-1

Date Collected: 03/09/16 08:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/12/16 10:43	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/12/16 10:43	1
Bromoform	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/12/16 10:43	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/12/16 10:43	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/12/16 10:43	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 10:43	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/12/16 10:43	1
cis-1,2-Dichloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/12/16 10:43	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/12/16 10:43	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/12/16 10:43	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/12/16 10:43	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/12/16 10:43	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/12/16 10:43	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/12/16 10:43	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/12/16 10:43	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/12/16 10:43	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.90	ug/Kg	☼		03/12/16 10:43	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 10:43	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/12/16 10:43	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/12/16 10:43	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/12/16 10:43	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 10:43	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/12/16 10:43	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 10:43	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/12/16 10:43	1
Dibromofluoromethane	111		75 - 120		03/12/16 10:43	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		03/12/16 10:43	1
Toluene-d8 (Surr)	117		75 - 122		03/12/16 10:43	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	40	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: WL75-1(0-1)-030916

Lab Sample ID: 500-108577-1

Date Collected: 03/09/16 08:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.6

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	☼	03/11/16 14:52	03/17/16 15:02	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,4-Dinitrophenol	<750	* F1	750	650	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
3,3'-Dichlorobenzidine	<190	F1 F2	190	52	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4,6-Dinitro-2-methylphenol	<750	F1	750	300	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Chloroaniline	<750	F2	750	170	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Acenaphthylene	8.7	J	37	4.9	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Anthracene	8.2	J	37	6.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Benzo[a]anthracene	61		37	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Benzo[a]pyrene	76	*	37	7.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Benzo[b]fluoranthene	140	*	37	8.0	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Benzo[g,h,i]perylene	27	J *	37	12	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Benzo[k]fluoranthene	43	*	37	11	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Bis(2-ethylhexyl) phthalate	<190	F1	190	68	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Butyl benzyl phthalate	<190	F1	190	71	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Carbazole	<190		190	93	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Chrysene	76		37	10	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Dibenz(a,h)anthracene	7.2	J *	37	7.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Di-n-octyl phthalate	<190	F1	190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Fluoranthene	140		37	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: WL75-1(0-1)-030916

Lab Sample ID: 500-108577-1

Date Collected: 03/09/16 08:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.6

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	29	J *	37	9.6	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Pentachlorophenol	<750	F1	750	590	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Phenanthrene	52		37	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Phenol	<190		190	82	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Pyrene	120	F1	37	7.4	ug/Kg	☼	03/11/16 14:52	03/17/16 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		35 - 137				03/11/16 14:52	03/17/16 15:02	1
2-Fluorobiphenyl	76		25 - 119				03/11/16 14:52	03/17/16 15:02	1
2-Fluorophenol	92		25 - 110				03/11/16 14:52	03/17/16 15:02	1
Nitrobenzene-d5	66		25 - 115				03/11/16 14:52	03/17/16 15:02	1
Phenol-d5	90		31 - 110				03/11/16 14:52	03/17/16 15:02	1
Terphenyl-d14	99		36 - 134				03/11/16 14:52	03/17/16 15:02	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		03/19/16 12:25	03/19/16 23:10	1
Barium	0.23	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:10	1
Manganese	0.63		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:10	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:10	1
Zinc	0.12	J	0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:10	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		03/18/16 15:11	03/19/16 17:37	1
Barium	0.16	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 17:37	1
Chromium	0.027		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:37	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:37	1
Copper	0.019	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:37	1
Iron	25		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 17:37	1
Lead	0.032		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 17:37	1
Manganese	0.64		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:37	1
Nickel	0.019	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 17:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 17:37	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: WL75-1(0-1)-030916

Lab Sample ID: 500-108577-1

Date Collected: 03/09/16 08:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 88.6

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		03/18/16 15:11	03/19/16 17:37	1
Zinc	2.0		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 17:37	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	☼	03/16/16 08:31	03/18/16 04:33	1
Arsenic	1.7		0.56	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Barium	31		0.56	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Beryllium	0.18	J	0.23	0.049	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Cadmium	0.093	J	0.11	0.033	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Calcium	18000	B	11	3.6	mg/Kg	☼	03/16/16 08:31	03/18/16 19:31	1
Chromium	5.4		0.56	0.097	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Cobalt	2.5		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Copper	4.6		0.56	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Iron	6300	B	11	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 19:31	1
Lead	18	F1	0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Magnesium	11000	B	5.6	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 19:31	1
Manganese	230		0.56	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Nickel	4.8		0.56	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Potassium	380	F1	28	4.6	mg/Kg	☼	03/16/16 08:31	03/18/16 19:31	1
Selenium	0.29	J	0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Sodium	360		56	7.4	mg/Kg	☼	03/16/16 08:31	03/18/16 19:31	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Vanadium	8.0		0.28	0.082	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	1
Zinc	27		1.1	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 04:33	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		03/19/16 18:45	03/21/16 08:53	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		03/18/16 17:45	03/19/16 14:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/17/16 13:00	03/18/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			03/12/16 10:00	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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



500-108577 COC

Report To (optional)
Contact: S. Doheny-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 #: 500-108577
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.3

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Weston Solutions		02056-014-0400030		7	7	7	7	7			
Project Name		Lab Project #		Parameter							
1 DOT 040-IL Route 113											
Project Location/State		Lab Project #		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SUP METALS	PH	Comments
Braidwood, IL											
Sampler		Lab PM									
M. Doheny-Kumar		D. Wright									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SUP METALS	PH
			Date	Time							
1		WL75-1(0-1)-030916	3-9-16	0830	2 S		X	X	X	X	X
2		R74-1(0-1)-030916		0840							
3		R74-2(0-1)-030916		0925							
4		R74-3(0-1)-030916		0935							
5		R74-4(0-1)-030916		0950							
6		GL77-1(0-1)-030916		1012							
7		GL77-1(0-1)-030916		1012							
8		GL77-2(0-1)-030916		1030							
9		GL77-3(0-1)-030916		1042							
10		GL77-4(0-1)-030916	3-9-16	1050	2 S		X	X	X	X	X

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>Angie Paddy</u>	Company Weston	Date 3-9-2016	Time 1533	Received By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1533
Relinquished By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1645	Received By <u>[Signature]</u>	Company TVA-CHT	Date 3/9/16	Time 1645
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TVA

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):
20000-21000 blocks of W. IL 113, (ISGS Site No. 2948-76)

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: 41.234732553 Longitude: -88.104588045
(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: 41.234732553 Longitude: -88.104588045

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 WL76-2 THROUGH WL76-9 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-76. SEE FIGURES 3-11/3-12 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: 500-108729-1.
ALSO SEE FIGURES 4-11 AND 4-12 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.

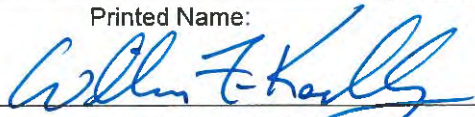
Street Address: 300 Circle Plaza; Suite 202

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. 2948-76
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	WL76-2(0-1)-031116	WL76-3(0-1)-031116	WL76-4(0-1)-031116	WL76-5(0-1)-031116	WL76-6(0-1)-031116	WL76-7(0-1)-031116	WL76-7(0-1)-031116D	WL76-8(0-1)-031116	WL76-9(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	
Location ID	WL76-2	WL76-3	WL76-4	WL76-5	WL76-6	WL76-7	WL76-7	WL76-8	WL76-9	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	
Parameter										
Laboratory pH	8.85	7.39	7.84	8.17	8.79	8.36	8.05	8.02	7.86	<6.25,>9.0
VOCs (ug/kg)										
None Detected										
SVOCs (ug/kg)										
Benzo(a)anthracene	320	120 J	9.5 J	18 J	32 J	150 J	82 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	460 J	150 J	ND	ND	41 J	230 J	140 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	780 J	250 J	ND	ND	58 J	390 J	220 J	ND	ND	900 / 1500 / 2100
Dibenzo(a,h)anthracene	42 J	ND	ND	ND	ND	ND	ND	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	180 J	64 J	ND	ND	ND	170 J	84 J	ND	ND	900 / 900 / 1600
Total Metals (mg/kg)										
Arsenic, Total	2.3 J	2.6 J	1.8 J	2.7 J	3.8 J	2.4 J	2.2 J	1.9 J	1.6 J	11.3 / 13
Barium, Total	31	23	24	28	41	22	23	34	30	1500
Beryllium, Total	0.29	0.3	0.24	0.29	0.43	0.27	0.3	0.2 J	0.21 J	22
Cadmium, Total	0.054 J	0.099 J	0.075 J	0.078 J	0.14	0.09 J	0.11	0.083 J	0.08 J	5.2
Calcium, Total	17000 J	20000 J	10000 J	27000 J	31000 J	100000 J	110000 J	17000 J	16000 J	---
Chromium, Total	6.1	5.3	4.7	5.5	7.2	5.2	4.6	4.1	4.6	21
Iron, Total	9400 J	8200 J	7100 J	9100 J	16000 J	7500 J	7100 J	6100 J	5800 J	15000 / 15900
Lead, Total	12	11	5.7	9.8	24	25	21	9.3	9.4	107
Manganese, Total	350 J-	300 J-	290 J-	400 J-	670 J-	350 J-	390 J-	360 J-	260 J-	630 / 636
Mercury, Total	0.044	0.015 J	0.017	0.016 J	0.038	0.011 J	0.013 J	0.019	0.013 J	0.89
Nickel, Total	6.4 J	6 J	4.8 J	6.5 J	10 J	6.3 J	6.1 J	4.2 J	4.8 J	100
Potassium, Total	510	440	380	440	580	570	610	350	370	---
Selenium, Total	0.67	0.46 J	0.36 J	0.29 J	0.77	ND	ND	0.49 J	0.32 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	21	26	18	21	47	25	23	22	21	5100
TCLP Metals (mg/l)										
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.24 J	0.19 J	0.2 J	0.26 J	0.24 J	0.22 J	0.22 J	0.28 J	0.24 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.84	0.77	0.67	0.99	0.13	1.2	1.6	0.84	1.2	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.77	0.93	0.35 J	0.82	0.43 J	0.07 J	0.24 J	0.26 J	1.1	5

Summary Table of ISGS Site No. 2948-76
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	WL76-2(0-1)-031116	WL76-3(0-1)-031116	WL76-4(0-1)-031116	WL76-5(0-1)-031116	WL76-6(0-1)-031116	WL76-7(0-1)-031116	WL76-7(0-1)-031116D	WL76-8(0-1)-031116	WL76-9(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	3/11/2016	
Location ID	WL76-2	WL76-3	WL76-4	WL76-5	WL76-6	WL76-7	WL76-7	WL76-8	WL76-9	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	2948-76	
Parameter										
SPLP Metals (mg/l)										
Arsenic, SPLP	0.015 J	ND	ND	ND	0.014 J	ND	ND	ND	ND	0.05
Barium, SPLP	0.3 J	0.099 J	0.13 J	0.2 J	0.28 J	0.14 J	0.14 J	0.15 J	0.13 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.07	0.023 J	0.029	0.048	0.072	0.039	0.039	0.024 J	0.022 J	0.1
Iron, SPLP	87 J+	24 J+	30 J+	56 J+	85 J+	39 J+	41 J+	25 J+	21 J+	5
Lead, SPLP	0.085	0.031	0.026	0.061	0.096	0.068	0.07	0.035	0.036	0.0075
Manganese, SPLP	1.2	0.42	0.54	0.69	1.1	0.53	0.56	0.61	0.49	0.15
Mercury, SPLP	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.055	0.017 J	0.02 J	0.038	0.061	0.026	0.027	0.015 J	0.017 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.24 J	0.14 J	0.12 J	0.17 J	0.28 J	0.13 J	0.13 J	0.11 J	0.1 J	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108729-1
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:
3/25/2016 4:31:05 PM

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

LINKS

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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: 500-108729-1

Client Sample ID: WL76-2(0-1)-031116

Lab Sample ID: 500-108729-4

Date Collected: 03/11/16 11:55

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/15/16 17:47	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/15/16 17:47	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 17:47	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 17:47	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/15/16 17:47	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 17:47	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 17:47	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/15/16 17:47	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/15/16 17:47	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 17:47	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 17:47	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 17:47	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 17:47	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/15/16 17:47	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/15/16 17:47	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 17:47	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/15/16 17:47	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 17:47	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 17:47	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 17:47	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 17:47	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 17:47	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 17:47	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 17:47	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 17:47	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/15/16 17:47	1
Dibromofluoromethane	109		75 - 120		03/15/16 17:47	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/15/16 17:47	1
Toluene-d8 (Surr)	108		75 - 122		03/15/16 17:47	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	☼	03/16/16 17:37	03/24/16 21:25	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-2(0-1)-031116

Lab Sample ID: 500-108729-4

Date Collected: 03/11/16 11:55

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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	☼	03/16/16 17:37	03/24/16 21:25	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Methylnaphthalene	8.1	J	35	6.5	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Acenaphthene	7.2	J	35	6.4	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Acenaphthylene	92		35	4.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Anthracene	38		35	5.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Benzo[a]anthracene	320		35	4.8	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Benzo[a]pyrene	460	*	35	6.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Benzo[b]fluoranthene	780	*	35	7.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Benzo[g,h,i]perylene	170	*	35	11	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Benzo[k]fluoranthene	280	*	35	10	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Carbazole	<180		180	89	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Chrysene	350		35	9.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Dibenz(a,h)anthracene	42	*	35	6.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Fluoranthene	490		35	6.6	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Fluorene	12	J	35	5.0	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-2(0-1)-031116

Lab Sample ID: 500-108729-4

Date Collected: 03/11/16 11:55

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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	180	*	35	9.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Phenanthrene	110		35	5.0	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Phenol	<180		180	79	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Pyrene	750		35	7.1	ug/Kg	☼	03/16/16 17:37	03/24/16 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	40		35 - 137				03/16/16 17:37	03/24/16 21:25	1
2-Fluorobiphenyl	83		25 - 119				03/16/16 17:37	03/24/16 21:25	1
2-Fluorophenol	92		25 - 110				03/16/16 17:37	03/24/16 21:25	1
Nitrobenzene-d5	77		25 - 115				03/16/16 17:37	03/24/16 21:25	1
Phenol-d5	77		31 - 110				03/16/16 17:37	03/24/16 21:25	1
Terphenyl-d14	132		36 - 134				03/16/16 17:37	03/24/16 21:25	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		03/22/16 08:08	03/24/16 18:13	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:13	1
Manganese	0.84		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:13	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:13	1
Zinc	0.77		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Barium	0.30	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:07	1
Chromium	0.070		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Cobalt	0.017	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Copper	0.042		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Iron	87		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:07	1
Lead	0.085		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:07	1
Manganese	1.2		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Nickel	0.055		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-2(0-1)-031116

Lab Sample ID: 500-108729-4

Date Collected: 03/11/16 11:55

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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 08:19	03/24/16 19:07	1
Zinc	0.24	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:07	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 15:42	03/23/16 23:24	1
Arsenic	2.3		0.55	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Barium	31		0.55	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Beryllium	0.29		0.22	0.048	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Cadmium	0.054	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Calcium	17000		11	3.6	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Chromium	6.1		0.55	0.095	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Cobalt	3.6		0.28	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Copper	4.3	B	0.55	0.12	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Iron	9400	B	11	4.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Lead	12		0.28	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Magnesium	11000		5.5	2.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Manganese	350		0.55	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Nickel	6.4		0.55	0.15	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Potassium	510		28	4.5	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Selenium	0.67		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Sodium	470	B	55	7.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Vanadium	13		0.28	0.081	mg/Kg	☼	03/17/16 15:42	03/23/16 23:24	1
Zinc	21		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/23/16 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		03/21/16 18:30	03/22/16 16:21	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 09:00	03/23/16 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	44		19	9.7	ug/Kg	☼	03/21/16 15:30	03/22/16 22:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.85		0.200	0.200	SU			03/16/16 13:38	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-3(0-1)-031116

Lab Sample ID: 500-108729-5

Date Collected: 03/11/16 12:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 18:14	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 18:14	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/15/16 18:14	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 18:14	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 18:14	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/15/16 18:14	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 18:14	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 18:14	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/15/16 18:14	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/15/16 18:14	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 18:14	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 18:14	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 18:14	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/15/16 18:14	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/15/16 18:14	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 18:14	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 18:14	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/15/16 18:14	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 18:14	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 18:14	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 18:14	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 18:14	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 18:14	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 18:14	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 18:14	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 18:14	1
Dibromofluoromethane	107		75 - 120		03/15/16 18:14	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 18:14	1
Toluene-d8 (Surr)	108		75 - 122		03/15/16 18:14	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	☼	03/16/16 17:37	03/24/16 21:53	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-3(0-1)-031116

Lab Sample ID: 500-108729-5

Date Collected: 03/11/16 12:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	85	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,4-Dinitrophenol	<750	*	750	660	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Acenaphthylene	22	J	37	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Anthracene	26	J	37	6.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Benzo[a]anthracene	120	*	37	5.0	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Benzo[a]pyrene	150	*	37	7.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Benzo[b]fluoranthene	250	*	37	8.0	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Benzo[g,h,i]perylene	53	*	37	12	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Benzo[k]fluoranthene	99	*	37	11	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Carbazole	<190		190	93	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Chrysene	120	*	37	10	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Fluoranthene	250		37	6.9	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Fluorene	5.5	J	37	5.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-3(0-1)-031116

Lab Sample ID: 500-108729-5

Date Collected: 03/11/16 12:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	64	*	37	9.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Isophorone	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Phenanthrene	100		37	5.2	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Phenol	<190		190	83	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Pyrene	340	*	37	7.4	ug/Kg	☼	03/16/16 17:37	03/24/16 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		35 - 137				03/16/16 17:37	03/24/16 21:53	1
2-Fluorobiphenyl	68		25 - 119				03/16/16 17:37	03/24/16 21:53	1
2-Fluorophenol	74		25 - 110				03/16/16 17:37	03/24/16 21:53	1
Nitrobenzene-d5	59		25 - 115				03/16/16 17:37	03/24/16 21:53	1
Phenol-d5	54		31 - 110				03/16/16 17:37	03/24/16 21:53	1
Terphenyl-d14	126	*	36 - 134				03/16/16 17:37	03/24/16 21:53	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		03/22/16 08:08	03/24/16 18:26	1
Barium	0.19	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:26	1
Manganese	0.77		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:26	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:26	1
Zinc	0.93		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Barium	0.099	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:11	1
Chromium	0.023	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Copper	0.016	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Iron	24		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:11	1
Lead	0.031		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:11	1
Manganese	0.42		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Nickel	0.017	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:11	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-3(0-1)-031116

Lab Sample ID: 500-108729-5

Date Collected: 03/11/16 12:10

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/23/16 08:19	03/24/16 19:11	1
Zinc	0.14	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:11	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 15:42	03/23/16 23:28	1
Arsenic	2.6		0.53	0.24	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Barium	23		0.53	0.097	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Beryllium	0.30		0.21	0.046	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Cadmium	0.099	J	0.11	0.031	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Calcium	20000		11	3.4	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Chromium	5.3		0.53	0.091	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Cobalt	2.9		0.26	0.060	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Copper	4.3	B	0.53	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Iron	8200	B	11	4.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Lead	11		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Magnesium	12000		5.3	2.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Manganese	300		0.53	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Nickel	6.0		0.53	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Potassium	440		26	4.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Selenium	0.46	J	0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Sodium	360	B	53	7.0	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Vanadium	9.9		0.26	0.077	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	1
Zinc	26		1.1	0.33	mg/Kg	☼	03/17/16 15:42	03/23/16 23:28	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	19	9.8	ug/Kg	☼	03/21/16 15:30	03/22/16 22:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.39		0.200	0.200	SU			03/16/16 13:41	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-4(0-1)-031116

Lab Sample ID: 500-108729-6

Date Collected: 03/11/16 12:50

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 18:40	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 18:40	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/15/16 18:40	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 18:40	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 18:40	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/15/16 18:40	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 18:40	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 18:40	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/15/16 18:40	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/15/16 18:40	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 18:40	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 18:40	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 18:40	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/15/16 18:40	1
Methylene Chloride	<5.8		5.8	4.3	ug/Kg	☼		03/15/16 18:40	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 18:40	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 18:40	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/15/16 18:40	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 18:40	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 18:40	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 18:40	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 18:40	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 18:40	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 18:40	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 18:40	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/15/16 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 18:40	1
Dibromofluoromethane	108		75 - 120		03/15/16 18:40	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/15/16 18:40	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-4(0-1)-031116

Lab Sample ID: 500-108729-6

Date Collected: 03/11/16 12:50

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Methylnaphthalene	18	J	38	7.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Benzo[a]anthracene	9.5	J	38	5.1	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Benzo[a]pyrene	<38	*	38	7.4	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Benzo[b]fluoranthene	<38	*	38	8.2	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Benzo[g,h,i]perylene	<38	*	38	12	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Benzo[k]fluoranthene	<38	*	38	11	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Carbazole	<190		190	95	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Chrysene	15	J	38	10	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Fluoranthene	7.8	J	38	7.0	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-4(0-1)-031116

Lab Sample ID: 500-108729-6

Date Collected: 03/11/16 12:50

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Isophorone	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Naphthalene	12	J	38	5.8	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Phenanthrene	16	J	38	5.3	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Phenol	<190		190	84	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Pyrene	32	J	38	7.5	ug/Kg	☼	03/16/16 17:37	03/23/16 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137				03/16/16 17:37	03/23/16 19:46	1
2-Fluorobiphenyl	105		25 - 119				03/16/16 17:37	03/23/16 19:46	1
2-Fluorophenol	105		25 - 110				03/16/16 17:37	03/23/16 19:46	1
Nitrobenzene-d5	106		25 - 115				03/16/16 17:37	03/23/16 19:46	1
Phenol-d5	99		31 - 110				03/16/16 17:37	03/23/16 19:46	1
Terphenyl-d14	121		36 - 134				03/16/16 17:37	03/23/16 19:46	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		03/22/16 08:08	03/24/16 18:32	1
Barium	0.20	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:32	1
Manganese	0.67		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:32	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:32	1
Zinc	0.35	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:32	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		03/23/16 08:19	03/24/16 19:15	1
Barium	0.13	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:15	1
Chromium	0.029		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:15	1
Copper	0.019	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:15	1
Iron	30		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:15	1
Lead	0.026		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:15	1
Manganese	0.54		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:15	1
Nickel	0.020	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:15	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-4(0-1)-031116

Lab Sample ID: 500-108729-6

Date Collected: 03/11/16 12:50

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/23/16 08:19	03/24/16 19:15	1
Zinc	0.12	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:15	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	☼	03/17/16 15:42	03/23/16 23:33	1
Arsenic	1.8		0.55	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Barium	24		0.55	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Beryllium	0.24		0.22	0.047	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Cadmium	0.075	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Calcium	10000		11	3.5	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Chromium	4.7		0.55	0.094	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Cobalt	2.4		0.27	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Copper	3.6	B	0.55	0.12	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Iron	7100	B	11	4.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Lead	5.7		0.27	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Magnesium	6000		5.5	2.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Manganese	290		0.55	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Potassium	380		27	4.5	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Selenium	0.36	J	0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Sodium	290	B	55	7.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Vanadium	9.1		0.27	0.080	mg/Kg	☼	03/17/16 15:42	03/23/16 23:33	1
Zinc	18		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/23/16 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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17		17	9.1	ug/Kg	☼	03/21/16 15:30	03/22/16 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			03/16/16 13:44	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-5(0-1)-031116

Lab Sample ID: 500-108729-7

Date Collected: 03/11/16 13:00

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 19:05	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:05	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/15/16 19:05	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:05	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 19:05	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 19:05	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:05	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/15/16 19:05	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:05	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:05	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/15/16 19:05	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:05	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/15/16 19:05	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 19:05	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 19:05	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 19:05	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 19:05	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/15/16 19:05	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/15/16 19:05	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 19:05	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:05	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/15/16 19:05	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:05	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 19:05	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 19:05	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 19:05	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:05	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 19:05	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:05	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 19:05	1
Dibromofluoromethane	109		75 - 120		03/15/16 19:05	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/15/16 19:05	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 19:05	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	☼	03/16/16 17:37	03/24/16 22:22	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-5(0-1)-031116

Lab Sample ID: 500-108729-7

Date Collected: 03/11/16 13:00

Matrix: Solid

Date Received: 03/11/16 16:20

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	<350		350	80	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,4-Dinitrophenol	<710	*	710	620	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Methylnaphthalene	20	J	35	6.5	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Acenaphthylene	5.9	J	35	4.6	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Benzo[a]anthracene	18	J*	35	4.7	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Benzo[a]pyrene	<35	*	35	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Benzo[b]fluoranthene	<35	*	35	7.6	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Bis(2-ethylhexyl) phthalate	<180	*	180	64	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Carbazole	<180		180	88	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Chrysene	19	J*	35	9.6	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Fluoranthene	22	J	35	6.5	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-5(0-1)-031116

Lab Sample ID: 500-108729-7

Date Collected: 03/11/16 13:00

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.1

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	<35	*	35	9.1	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Naphthalene	16	J	35	5.4	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Phenanthrene	22	J	35	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Phenol	<180		180	78	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Pyrene	52	*	35	7.0	ug/Kg	☼	03/16/16 17:37	03/24/16 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/16/16 17:37	03/24/16 22:22	1
2-Fluorobiphenyl	85		25 - 119				03/16/16 17:37	03/24/16 22:22	1
2-Fluorophenol	96		25 - 110				03/16/16 17:37	03/24/16 22:22	1
Nitrobenzene-d5	80		25 - 115				03/16/16 17:37	03/24/16 22:22	1
Phenol-d5	83		31 - 110				03/16/16 17:37	03/24/16 22:22	1
Terphenyl-d14	162	X *	36 - 134				03/16/16 17:37	03/24/16 22:22	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		03/22/16 08:08	03/24/16 18:37	1
Barium	0.26	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:37	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:37	1
Manganese	0.99		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:37	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:37	1
Zinc	0.82		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:37	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 08:19	03/24/16 19:19	1
Barium	0.20	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:19	1
Chromium	0.048		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:19	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:19	1
Copper	0.028		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:19	1
Iron	56		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:19	1
Lead	0.061		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:19	1
Manganese	0.69		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:19	1
Nickel	0.038		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-5(0-1)-031116

Lab Sample ID: 500-108729-7

Date Collected: 03/11/16 13:00

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/23/16 08:19	03/24/16 19:19	1
Zinc	0.17	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:19	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 15:42	03/23/16 23:37	1
Arsenic	2.7		0.53	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Barium	28		0.53	0.098	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Beryllium	0.29		0.21	0.046	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Cadmium	0.078	J	0.11	0.031	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Calcium	27000		11	3.4	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Chromium	5.5		0.53	0.092	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Cobalt	3.3		0.27	0.060	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Copper	4.1	B	0.53	0.12	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Iron	9100	B	11	4.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Lead	9.8		0.27	0.13	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Magnesium	17000		5.3	2.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Manganese	400		0.53	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Nickel	6.5		0.53	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Potassium	440		27	4.4	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Selenium	0.29	J	0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Sodium	510	B	53	7.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Vanadium	11		0.27	0.078	mg/Kg	☼	03/17/16 15:42	03/23/16 23:37	1
Zinc	21		1.1	0.34	mg/Kg	☼	03/17/16 15:42	03/23/16 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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	17	9.1	ug/Kg	☼	03/21/16 15:30	03/22/16 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			03/16/16 13:46	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-6(0-1)-031116

Lab Sample ID: 500-108729-8

Date Collected: 03/11/16 13:05

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 19:31	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 19:31	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/15/16 19:31	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 19:31	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 19:31	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/15/16 19:31	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 19:31	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 19:31	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/15/16 19:31	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/15/16 19:31	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 19:31	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 19:31	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 19:31	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/15/16 19:31	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/15/16 19:31	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 19:31	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/15/16 19:31	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 19:31	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 19:31	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 19:31	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 19:31	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 19:31	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 19:31	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 19:31	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 19:31	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/15/16 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/15/16 19:31	1
Dibromofluoromethane	108		75 - 120		03/15/16 19:31	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/15/16 19:31	1
Toluene-d8 (Surr)	105		75 - 122		03/15/16 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-6(0-1)-031116

Lab Sample ID: 500-108729-8

Date Collected: 03/11/16 13:05

Matrix: Solid

Date Received: 03/11/16 16:20

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	87	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Methylnaphthalene	15	J	38	7.0	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Acenaphthylene	7.4	J	38	5.0	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Benzo[a]anthracene	32	J *	38	5.1	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Benzo[a]pyrene	41	*	38	7.4	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Benzo[b]fluoranthene	58	*	38	8.2	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Benzo[g,h,i]perylene	26	J *	38	12	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Benzo[k]fluoranthene	30	J *	38	11	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Bis(2-ethylhexyl) phthalate	<190	*	190	69	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Carbazole	<190		190	95	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Chrysene	52	*	38	10	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Fluoranthene	49		38	7.0	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-6(0-1)-031116

Lab Sample ID: 500-108729-8

Date Collected: 03/11/16 13:05

Matrix: Solid

Date Received: 03/11/16 16:20

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	<38	*	38	9.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Isophorone	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Phenanthrene	67		38	5.3	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Phenol	<190		190	84	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1
Pyrene	140	*	38	7.6	ug/Kg	☼	03/16/16 17:37	03/24/16 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137	03/16/16 17:37	03/24/16 22:51	1
2-Fluorobiphenyl	81		25 - 119	03/16/16 17:37	03/24/16 22:51	1
2-Fluorophenol	85		25 - 110	03/16/16 17:37	03/24/16 22:51	1
Nitrobenzene-d5	78		25 - 115	03/16/16 17:37	03/24/16 22:51	1
Phenol-d5	76		31 - 110	03/16/16 17:37	03/24/16 22:51	1
Terphenyl-d14	180	X *	36 - 134	03/16/16 17:37	03/24/16 22:51	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		03/22/16 08:08	03/24/16 18:42	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:42	1
Manganese	0.13		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:42	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:42	1
Zinc	0.43	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Barium	0.28	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:23	1
Chromium	0.072		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Cobalt	0.015	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Copper	0.048		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Iron	85		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:23	1
Lead	0.096		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:23	1
Manganese	1.1		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Nickel	0.061		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:23	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-6(0-1)-031116

Lab Sample ID: 500-108729-8

Date Collected: 03/11/16 13:05

Matrix: Solid

Date Received: 03/11/16 16:20

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 08:19	03/24/16 19:23	1
Zinc	0.28	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:23	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	☼	03/17/16 15:42	03/23/16 23:42	1
Arsenic	3.8		0.56	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Barium	41		0.56	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Beryllium	0.43		0.23	0.049	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Cadmium	0.14		0.11	0.033	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Calcium	31000		11	3.6	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Chromium	7.2		0.56	0.097	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Cobalt	4.8		0.28	0.064	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Copper	7.7	B	0.56	0.12	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Iron	16000	B	11	4.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Lead	24		0.28	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Magnesium	19000		5.6	2.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Manganese	670		0.56	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Nickel	10		0.56	0.15	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Potassium	580		28	4.6	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Selenium	0.77		0.56	0.28	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Sodium	660	B	56	7.4	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Vanadium	14		0.28	0.082	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	1
Zinc	47		1.1	0.36	mg/Kg	☼	03/17/16 15:42	03/23/16 23:42	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		19	10	ug/Kg	☼	03/21/16 15:30	03/22/16 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.79		0.200	0.200	SU			03/16/16 13:49	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116

Lab Sample ID: 500-108729-9

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 19:57	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:57	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/15/16 19:57	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:57	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 19:57	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 19:57	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:57	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/15/16 19:57	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:57	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:57	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/15/16 19:57	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:57	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/15/16 19:57	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 19:57	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 19:57	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 19:57	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 19:57	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/15/16 19:57	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/15/16 19:57	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 19:57	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:57	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/15/16 19:57	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 19:57	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/15/16 19:57	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 19:57	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 19:57	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 19:57	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 19:57	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 19:57	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 19:57	1
Dibromofluoromethane	110		75 - 120		03/15/16 19:57	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 19:57	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 19:57	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	☼	03/16/16 17:37	03/24/16 23:20	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116

Lab Sample ID: 500-108729-9

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,4-Dinitrophenol	<740	*	740	650	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Methylnaphthalene	9.7	J	37	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Acenaphthylene	34	J	37	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Anthracene	21	J	37	6.2	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Benzo[a]anthracene	150	*	37	5.0	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Benzo[a]pyrene	230	*	37	7.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Benzo[b]fluoranthene	390	*	37	8.0	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Benzo[g,h,i]perylene	170	*	37	12	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Benzo[k]fluoranthene	120	*	37	11	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Bis(2-ethylhexyl) phthalate	70	J *	190	67	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Carbazole	<190		190	92	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Chrysene	190	*	37	10	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Fluoranthene	180		37	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Fluorene	5.4	J	37	5.2	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116

Lab Sample ID: 500-108729-9

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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	170	*	37	9.6	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Isophorone	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Phenanthrene	93		37	5.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Phenol	<190		190	82	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Pyrene	610	*	37	7.3	ug/Kg	☼	03/16/16 17:37	03/24/16 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				03/16/16 17:37	03/24/16 23:20	1
2-Fluorobiphenyl	84		25 - 119				03/16/16 17:37	03/24/16 23:20	1
2-Fluorophenol	97		25 - 110				03/16/16 17:37	03/24/16 23:20	1
Nitrobenzene-d5	82		25 - 115				03/16/16 17:37	03/24/16 23:20	1
Phenol-d5	92		31 - 110				03/16/16 17:37	03/24/16 23:20	1
Terphenyl-d14	218	X*	36 - 134				03/16/16 17:37	03/24/16 23:20	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		03/22/16 08:08	03/24/16 18:47	1
Barium	0.22	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:47	1
Manganese	1.2		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:47	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:47	1
Zinc	0.070	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:47	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 08:19	03/24/16 19:27	1
Barium	0.14	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:27	1
Chromium	0.039		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:27	1
Copper	0.023	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:27	1
Iron	39		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:27	1
Lead	0.068		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:27	1
Manganese	0.53		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:27	1
Nickel	0.026		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116

Lab Sample ID: 500-108729-9

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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 08:19	03/24/16 19:27	1
Zinc	0.13	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:27	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 15:42	03/23/16 23:48	1
Arsenic	2.4		0.55	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Barium	22		0.55	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Beryllium	0.27		0.22	0.047	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Cadmium	0.090	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Calcium	100000		110	35	mg/Kg	☼	03/17/16 15:42	03/24/16 13:57	10
Chromium	5.2		0.55	0.094	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Cobalt	3.4		0.27	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Copper	4.7	B	0.55	0.12	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Iron	7500	B	11	4.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Lead	25		0.27	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Magnesium	45000		5.5	2.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Manganese	350		0.55	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Nickel	6.3		0.55	0.15	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Potassium	570		27	4.5	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Sodium	510	B	55	7.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Vanadium	9.1		0.27	0.080	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	1
Zinc	25		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/23/16 23:48	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		03/21/16 18:30	03/22/16 16:35	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 09:00	03/23/16 16:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	J	17	9.1	ug/Kg	☼	03/21/16 15:30	03/22/16 22:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			03/16/16 13:51	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116D

Lab Sample ID: 500-108729-10

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 20:23	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 20:23	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/15/16 20:23	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 20:23	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 20:23	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 20:23	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/15/16 20:23	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/15/16 20:23	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/15/16 20:23	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 20:23	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 20:23	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 20:23	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 20:23	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/15/16 20:23	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/15/16 20:23	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 20:23	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/15/16 20:23	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 20:23	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/15/16 20:23	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 20:23	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 20:23	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 20:23	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 20:23	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 20:23	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/15/16 20:23	1
Dibromofluoromethane	107		75 - 120		03/15/16 20:23	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/15/16 20:23	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 20:23	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	☼	03/16/16 17:37	03/24/16 23:48	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116D

Lab Sample ID: 500-108729-10

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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	<370		370	84	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,4-Dinitrophenol	<740	*	740	650	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Acenaphthylene	18	J	37	4.8	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Anthracene	11	J	37	6.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Benzo[a]anthracene	82	*	37	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Benzo[a]pyrene	140	*	37	7.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Benzo[b]fluoranthene	220	*	37	7.9	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Benzo[g,h,i]perylene	130	*	37	12	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Benzo[k]fluoranthene	93	*	37	11	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Carbazole	<180		180	92	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Chrysene	120	*	37	10	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Fluoranthene	92		37	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116D

Lab Sample ID: 500-108729-10

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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	84	*	37	9.5	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Isophorone	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Phenanthrene	60		37	5.1	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Phenol	<180		180	82	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Pyrene	360	*	37	7.3	ug/Kg	☼	03/16/16 17:37	03/24/16 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				03/16/16 17:37	03/24/16 23:48	1
2-Fluorobiphenyl	60		25 - 119				03/16/16 17:37	03/24/16 23:48	1
2-Fluorophenol	62		25 - 110				03/16/16 17:37	03/24/16 23:48	1
Nitrobenzene-d5	50		25 - 115				03/16/16 17:37	03/24/16 23:48	1
Phenol-d5	52		31 - 110				03/16/16 17:37	03/24/16 23:48	1
Terphenyl-d14	149	X *	36 - 134				03/16/16 17:37	03/24/16 23:48	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 08:08	03/24/16 18:53	1
Barium	0.22	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:53	1
Manganese	1.6		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:53	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:53	1
Zinc	0.24	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:53	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		03/23/16 08:19	03/24/16 19:31	1
Barium	0.14	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:31	1
Chromium	0.039		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:31	1
Copper	0.023	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:31	1
Iron	41		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:31	1
Lead	0.070		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:31	1
Manganese	0.56		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:31	1
Nickel	0.027		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-7(0-1)-031116D

Lab Sample ID: 500-108729-10

Date Collected: 03/11/16 13:15

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/23/16 08:19	03/24/16 19:31	1
Zinc	0.13	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:31	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	☼	03/17/16 15:42	03/23/16 23:53	1
Arsenic	2.2		0.52	0.24	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Barium	23		0.52	0.096	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Beryllium	0.30		0.21	0.045	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Cadmium	0.11		0.10	0.030	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Calcium	110000		100	34	mg/Kg	☼	03/17/16 15:42	03/24/16 14:01	10
Chromium	4.6		0.52	0.090	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Cobalt	2.9		0.26	0.059	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Copper	4.3	B	0.52	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Iron	7100	B	10	4.0	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Lead	21		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Magnesium	50000		5.2	2.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Manganese	390		0.52	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Nickel	6.1		0.52	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Potassium	610		26	4.3	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Sodium	490	B	52	6.9	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Vanadium	9.0		0.26	0.077	mg/Kg	☼	03/17/16 15:42	03/23/16 23:53	1
Zinc	23		1.0	0.33	mg/Kg	☼	03/17/16 15:42	03/23/16 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		03/21/16 18:30	03/22/16 16:37	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 09:00	03/23/16 16:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	16	8.5	ug/Kg	☼	03/21/16 15:30	03/22/16 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			03/16/16 13:54	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-8(0-1)-031116

Lab Sample ID: 500-108729-11

Date Collected: 03/11/16 13:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/16/16 09:48	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/16/16 09:48	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 09:48	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 09:48	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/16/16 09:48	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 09:48	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 09:48	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/16/16 09:48	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/16/16 09:48	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/16/16 09:48	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 09:48	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 09:48	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 09:48	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/16/16 09:48	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/16/16 09:48	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 09:48	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/16/16 09:48	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/16/16 09:48	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/16/16 09:48	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 09:48	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/16/16 09:48	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/16/16 09:48	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/16/16 09:48	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/16/16 09:48	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/16/16 09:48	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 09:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/16/16 09:48	1
Dibromofluoromethane	110		75 - 120		03/16/16 09:48	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/16/16 09:48	1
Toluene-d8 (Surr)	105		75 - 122		03/16/16 09:48	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	☼	03/16/16 17:37	03/25/16 00:17	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-8(0-1)-031116

Lab Sample ID: 500-108729-11

Date Collected: 03/11/16 13:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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	☼	03/16/16 17:37	03/25/16 00:17	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Benzo[a]anthracene	<36	*	36	4.8	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Benzo[a]pyrene	<36	*	36	6.9	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Benzo[b]fluoranthene	<36	*	36	7.7	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Benzo[k]fluoranthene	<36	*	36	11	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Carbazole	<180		180	90	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Chrysene	<36	*	36	9.8	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Dibenz(a,h)anthracene	<36	*	36	6.9	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Fluoranthene	<36		36	6.6	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-8(0-1)-031116

Lab Sample ID: 500-108729-11

Date Collected: 03/11/16 13:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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	☼	03/16/16 17:37	03/25/16 00:17	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Phenanthrene	5.0	J	36	5.0	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Phenol	<180		180	80	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Pyrene	15	J *	36	7.1	ug/Kg	☼	03/16/16 17:37	03/25/16 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137				03/16/16 17:37	03/25/16 00:17	1
2-Fluorobiphenyl	75		25 - 119				03/16/16 17:37	03/25/16 00:17	1
2-Fluorophenol	82		25 - 110				03/16/16 17:37	03/25/16 00:17	1
Nitrobenzene-d5	68		25 - 115				03/16/16 17:37	03/25/16 00:17	1
Phenol-d5	71		31 - 110				03/16/16 17:37	03/25/16 00:17	1
Terphenyl-d14	197	X *	36 - 134				03/16/16 17:37	03/25/16 00:17	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		03/22/16 08:08	03/24/16 18:58	1
Barium	0.28	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:58	1
Manganese	0.84		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:58	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:58	1
Zinc	0.26	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 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		03/23/16 08:19	03/24/16 19:36	1
Barium	0.15	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:36	1
Chromium	0.024	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:36	1
Copper	0.018	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:36	1
Iron	25		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:36	1
Lead	0.035		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:36	1
Manganese	0.61		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:36	1
Nickel	0.015	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-8(0-1)-031116

Lab Sample ID: 500-108729-11

Date Collected: 03/11/16 13:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.7

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 08:19	03/24/16 19:36	1
Zinc	0.11	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:36	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 15:42	03/24/16 00:06	1
Arsenic	1.9		0.56	0.26	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Barium	34		0.56	0.10	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Beryllium	0.20	J	0.22	0.048	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Cadmium	0.083	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Calcium	17000		11	3.6	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Chromium	4.1		0.56	0.096	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Cobalt	2.6		0.28	0.063	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Copper	4.1	B	0.56	0.12	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Iron	6100	B	11	4.3	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Lead	9.3		0.28	0.14	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Magnesium	10000		5.6	2.3	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Manganese	360		0.56	0.11	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Nickel	4.2		0.56	0.15	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Potassium	350		28	4.5	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Selenium	0.49	J	0.56	0.28	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Sodium	240	B	56	7.4	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Vanadium	8.1		0.28	0.081	mg/Kg	☼	03/17/16 15:42	03/24/16 00:06	1
Zinc	22		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/24/16 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		03/21/16 18:30	03/22/16 16:39	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 09:00	03/23/16 16:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19		18	9.3	ug/Kg	☼	03/21/16 15:30	03/22/16 22:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			03/16/16 13:59	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-9(0-1)-031116

Lab Sample ID: 500-108729-12

Date Collected: 03/11/16 13:35

Matrix: Solid

Date Received: 03/11/16 16:20

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 10:14	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:14	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/16/16 10:14	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:14	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 10:14	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/16/16 10:14	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:14	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/16/16 10:14	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:14	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:14	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/16/16 10:14	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:14	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/16/16 10:14	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:14	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 10:14	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 10:14	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 10:14	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/16/16 10:14	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/16/16 10:14	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/16/16 10:14	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:14	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/16/16 10:14	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/16/16 10:14	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/16/16 10:14	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/16/16 10:14	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/16/16 10:14	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/16/16 10:14	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/16/16 10:14	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/16/16 10:14	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/16/16 10:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/16/16 10:14	1
Dibromofluoromethane	108		75 - 120		03/16/16 10:14	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 10:14	1
Toluene-d8 (Surr)	106		75 - 122		03/16/16 10:14	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	☼	03/16/16 17:37	03/25/16 00:46	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-9(0-1)-031116

Lab Sample ID: 500-108729-12

Date Collected: 03/11/16 13:35

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼	03/16/16 17:37	03/25/16 00:46	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,4-Dinitrophenol	<750 *		750	650	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Benzo[a]anthracene	<37 *		37	5.0	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Benzo[a]pyrene	<37 *		37	7.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Benzo[b]fluoranthene	<37 *		37	8.0	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Bis(2-ethylhexyl) phthalate	<190 *		190	68	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Butyl benzyl phthalate	<190 *		190	70	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Carbazole	<190		190	92	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Dibenz(a,h)anthracene	<37 *		37	7.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-9(0-1)-031116

Lab Sample ID: 500-108729-12

Date Collected: 03/11/16 13:35

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼	03/16/16 17:37	03/25/16 00:46	1
Isophorone	<190		190	42	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Phenanthrene	13	J	37	5.2	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Phenol	<190		190	82	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Pyrene	16	J *	37	7.4	ug/Kg	☼	03/16/16 17:37	03/25/16 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				03/16/16 17:37	03/25/16 00:46	1
2-Fluorobiphenyl	74		25 - 119				03/16/16 17:37	03/25/16 00:46	1
2-Fluorophenol	78		25 - 110				03/16/16 17:37	03/25/16 00:46	1
Nitrobenzene-d5	65		25 - 115				03/16/16 17:37	03/25/16 00:46	1
Phenol-d5	64		31 - 110				03/16/16 17:37	03/25/16 00:46	1
Terphenyl-d14	157	X *	36 - 134				03/16/16 17:37	03/25/16 00:46	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		03/22/16 08:08	03/24/16 19:03	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 19:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 19:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 19:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 19:03	1
Manganese	1.2		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 19:03	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 19:03	1
Zinc	1.1		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 19:03	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		03/23/16 08:19	03/24/16 19:40	1
Barium	0.13	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 19:40	1
Chromium	0.022	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:40	1
Copper	0.016	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:40	1
Iron	21		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 19:40	1
Lead	0.036		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 19:40	1
Manganese	0.49		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:40	1
Nickel	0.017	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 19:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 19:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL76-9(0-1)-031116

Lab Sample ID: 500-108729-12

Date Collected: 03/11/16 13:35

Matrix: Solid

Date Received: 03/11/16 16:20

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 08:19	03/24/16 19:40	1
Zinc	0.10	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 19:40	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 15:42	03/24/16 00:10	1
Arsenic	1.6		0.55	0.25	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Barium	30		0.55	0.10	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Beryllium	0.21	J	0.22	0.047	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Cadmium	0.080	J	0.11	0.032	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Calcium	16000		11	3.5	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Chromium	4.6		0.55	0.094	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Cobalt	2.6		0.27	0.062	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Copper	4.2	B	0.55	0.12	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Iron	5800	B	11	4.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Lead	9.4		0.27	0.14	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Magnesium	9600		5.5	2.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Manganese	260		0.55	0.11	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Potassium	370		27	4.5	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Selenium	0.32	J	0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Sodium	320	B	55	7.2	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Vanadium	8.2		0.27	0.080	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	1
Zinc	21		1.1	0.35	mg/Kg	☼	03/17/16 15:42	03/24/16 00:10	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		03/21/16 18:30	03/22/16 16:41	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 09:00	03/23/16 17:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	17	8.9	ug/Kg	☼	03/21/16 15:30	03/22/16 22:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			03/16/16 14:02	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108729-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD 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
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.
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: 500-108729-1

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. Babusankumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108729

Chain of Custody Number: _____

Page 3 of 4

Temperature °C of Cooler: 4.7

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SLP Metals	AH	Preservative Key		Comments				
<u>IDOT-040</u>				Date	Time								1. HCL, Cool to 4° 2. HCL, Cool to 4° to 4° to 4° Cool to 4°		500-108729 COC				
Lab ID	MS/MSD	Sample ID																	
1		WL8-1(0-1)-031116	3-11-16	1130	2	S	X	X	X	X	X								
2		WL8-2(0-1)-031116	↓	1140	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3		WL76-1(0-1)-031116		1145															
4		WL76-2(0-1)-031116		1155															
5		WL76-3(0-1)-031116		1210															
6		WL76-4(0-1)-031116		1250															
7		WL76-5(0-1)-031116		1300															
8		WL76-6(0-1)-031116		1305															
9		WL76-7(0-1)-031116	1315	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
10		WL76-7(0-1)-031116D	3-11-16	1315	2	S	X	X	X	X	X								

Turnaround Time Required (Business Days) _____
 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>3-11-16</u> Time: <u>1515</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/11/16</u> Time: <u>1515</u>	Lab Courier: <u>TA-LMT</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/11/16</u> Time: <u>1620</u>	Received By: <u>[Signature]</u> Company: <u>TA/HL</u> Date: <u>03/11/16</u> Time: <u>16:20</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. Babusuluman
Company: Wester
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: SW-108729
Chain of Custody Number: _____
Page 4 of 4
Temperature °C of Cooler: 47

Client		Client Project #		Preservative		Parameter		Comments			
<u>Wester</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>JDOT-010</u>											
Project Location/State		Lab PM									
<u>Bradwood (IL)</u>		<u>D. Langh</u>									
Sampler		Date		Time		S					
<u>T. Wall</u>											
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	SOCs	SOCs	Total Metals	TCLP/SLD Metals	PH
<u>11</u>		<u>WL76-8(0-1)-031116</u>	<u>3-11-16</u>	<u>1325</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>WL76-9(0-1)-031116</u>		<u>1335</u>							
<u>13</u>		<u>R74-5(0-1)-031116</u>		<u>1345</u>							
<u>14</u>		<u>R74-6(0-1)-031116</u>		<u>1400</u>							
<u>15</u>		<u>R74-7(0-1)-031116</u>		<u>1410</u>							
<u>16</u>		<u>R70-3(0-1)-031116</u>	<u>3-11-16</u>	<u>1425</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>T. Wall 3-11-16</u>											

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Special 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>Wester</u>	Date <u>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1515</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1620</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>03/11/16</u>	Time <u>16:20</u>

Lab Courier: TA-UTC
 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):

20000-21000 blocks of W. IL 113, (ISGS Site No. 2948-77)

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: 41.235840971 Longitude: -88.107758474

(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: 41.235840971 Longitude: -88.107758474

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 GL77-1, GL77-2, GL77-4, GL77-5, AND GL77-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-77. SEE FIGURES 3-11/3-12 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: 500-108577-1. ALSO SEE FIGURES 4-11 AND 4-12 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. Seal:

Summary Table of ISGS Site No. 2948-77
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	GL77-1(0-1)-030916	GL77-1(0-1)-030916D	GL77-2(0-1)-030916	GL77-4(0-1)-030916	GL77-5(0-1)-030916	GL77-7(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	
Location ID	GL77-1	GL77-1	GL77-2	GL77-4	GL77-5	GL77-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-77	2948-77	2948-77	2948-77	2948-77	2948-77	
Parameter							
Laboratory pH	8	8.24	8.11	8.43	7.89	7.92	<6.25,>9.0
VOCs (ug/kg)	None Detected						
SVOCs (ug/kg)							
Benzo(a)anthracene	91 J	690 J	72	ND	43 J	760 J	900 / 1100 / 1800
Benzo(a)pyrene	130 J	640 J	110 J	ND	43 J	1100 J	90 / 1300 / 2100
Benzo(b)fluoranthene	240 J	1200 J	190 J	ND	80 J	1900 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	65 J	ND	ND	ND	150 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	60 J	280 J	59 J	ND	ND	730 J	900 / 900 / 1600
Total Metals (mg/kg)							
Arsenic, Total	3.8	2.9	2.6	1.3	2.8	3.1	11.3 / 13
Barium, Total	47	39	31	6.6	25	33	1500
Beryllium, Total	0.4	0.31	0.26	0.24	0.28	0.3	22
Cadmium, Total	0.059 J	0.087 J	0.13	0.16	0.053 J	0.064 J	5.2
Calcium, Total	11000 J	24000 J	24000 J	190000 J	30000 J	13000 J	---
Chromium, Total	8.3	6.5	5.6	3.5	5.9	6.2	21
Iron, Total	13000 J+	10000 J+	7900 J+	7800 J+	9600 J+	9400 J+	15000 / 15900
Lead, Total	14 J	22 J	31 J	5.7 J	13 J	18 J	107
Manganese, Total	580 J+	550 J+	350 J+	460 J+	340 J+	310 J+	630 / 636
Mercury, Total	0.026	0.026	0.024	ND	0.014 J	0.014 J	0.89
Nickel, Total	9.3	7.9	6.1	4	7.2	6.3	100
Potassium, Total	690 J+	650 J+	440 J+	600 J+	550 J+	560 J+	---
Selenium, Total	0.7	0.64	0.33 J	ND	0.29 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	27	27	30	7.2	23	22	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.26 J	0.3 J	0.29 J	0.092 J	0.16 J	0.27 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.0023 J	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.15 J	0.43 J	0.59	5.3	1.4	0.45	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.025	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	ND	ND	1.6	2.1 B	ND	ND	5

Summary Table of ISGS Site No. 2948-77
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	GL77-1(0-1)-030916	GL77-1(0-1)-030916D	GL77-2(0-1)-030916	GL77-4(0-1)-030916	GL77-5(0-1)-030916	GL77-7(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	
Location ID	GL77-1	GL77-1	GL77-2	GL77-4	GL77-5	GL77-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-77	2948-77	2948-77	2948-77	2948-77	2948-77	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	0.032 J	0.013 J	0.024 J	ND	ND	0.016 J	0.05
Barium, SPLP	0.37 J	0.21 J	0.32 J	ND	0.071 J	0.23 J	2
Beryllium, SPLP	0.0049	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.1 J	0.048 J	0.073	ND	0.02 J	0.051	0.1
Iron, SPLP	120 J	58 J	88	ND	20	58	5
Lead, SPLP	0.047 J	0.037 J	0.073 J	ND	0.039 J	0.071 J	0.0075
Manganese, SPLP	1.4 J	0.8 J	1.3	ND	0.34	0.87	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.084	0.037	0.061	ND	0.016 J	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	1.1	0.43 J	0.9	0.93	0.21 J	0.19 J	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

Richard Wright, Senior Project Manager
(708)534-5200
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: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916

Lab Sample ID: 500-108577-6

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 13:43	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:43	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/12/16 13:43	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:43	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/12/16 13:43	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/12/16 13:43	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:43	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/12/16 13:43	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/12/16 13:43	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:43	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/12/16 13:43	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/12/16 13:43	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:43	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/12/16 13:43	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/12/16 13:43	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:43	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/12/16 13:43	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:43	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/12/16 13:43	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/12/16 13:43	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/12/16 13:43	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:43	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/12/16 13:43	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/12/16 13:43	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/12/16 13:43	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/12/16 13:43	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/12/16 13:43	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/12/16 13:43	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/12/16 13:43	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/12/16 13:43	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122		03/12/16 13:43	1
Dibromofluoromethane	112		75 - 120		03/12/16 13:43	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 13:43	1
Toluene-d8 (Surr)	116		75 - 122		03/12/16 13:43	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	41	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916

Lab Sample ID: 500-108577-6

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼	03/11/16 14:52	03/17/16 16:29	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Acenaphthylene	21	J	37	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Anthracene	7.9	J	37	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Benzo[a]anthracene	91		37	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Benzo[a]pyrene	130	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Benzo[b]fluoranthene	240	*	37	8.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Benzo[g,h,i]perylene	53	*	37	12	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Benzo[k]fluoranthene	81	*	37	11	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Carbazole	<190		190	94	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Chrysene	110		37	10	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Dibenz(a,h)anthracene	<37	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Fluoranthene	160		37	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916

Lab Sample ID: 500-108577-6

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	60	*	37	9.8	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Phenanthrene	28	J	37	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Phenol	<190		190	84	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Pyrene	230		37	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/11/16 14:52	03/17/16 16:29	1
2-Fluorobiphenyl	70		25 - 119				03/11/16 14:52	03/17/16 16:29	1
2-Fluorophenol	83		25 - 110				03/11/16 14:52	03/17/16 16:29	1
Nitrobenzene-d5	63		25 - 115				03/11/16 14:52	03/17/16 16:29	1
Phenol-d5	82		31 - 110				03/11/16 14:52	03/17/16 16:29	1
Terphenyl-d14	135	X	36 - 134				03/11/16 14:52	03/17/16 16:29	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		03/19/16 12:25	03/19/16 23:36	1
Barium	0.26	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:36	1
Manganese	0.15		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:36	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:36	1
Zinc	0.92		0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Barium	0.37	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:06	1
Beryllium	0.0049		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:06	1
Chromium	0.10		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Copper	0.059		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Iron	120		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:06	1
Lead	0.047		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:06	1
Manganese	1.4		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Nickel	0.084		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:06	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916

Lab Sample ID: 500-108577-6

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 18:06	1
Zinc	1.1		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:06	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	☼	03/16/16 08:31	03/18/16 05:20	1
Arsenic	3.8		0.56	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Barium	47		0.56	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Beryllium	0.40		0.22	0.049	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Cadmium	0.059	J	0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Calcium	11000	B	11	3.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:19	1
Chromium	8.3		0.56	0.097	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Cobalt	5.2		0.28	0.063	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Copper	6.5		0.56	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Iron	13000	B	11	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:19	1
Lead	14		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Magnesium	6700	B	5.6	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:19	1
Manganese	580		0.56	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Nickel	9.3		0.56	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Potassium	690		28	4.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:19	1
Selenium	0.70		0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Sodium	380		56	7.4	mg/Kg	☼	03/16/16 08:31	03/18/16 20:19	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Vanadium	16		0.28	0.082	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	1
Zinc	27		1.1	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 05:20	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		03/19/16 18:45	03/21/16 09:11	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		03/18/16 17:45	03/19/16 14:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		19	10	ug/Kg	☼	03/17/16 13:00	03/18/16 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			03/12/16 10:29	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916D

Lab Sample ID: 500-108577-7

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 14:08	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/12/16 14:08	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/12/16 14:08	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/12/16 14:08	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/12/16 14:08	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/12/16 14:08	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/12/16 14:08	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
Dibromochloromethane	<6.0		6.0	0.68	ug/Kg	☼		03/12/16 14:08	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/12/16 14:08	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/12/16 14:08	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/12/16 14:08	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/12/16 14:08	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/12/16 14:08	1
2-Hexanone	<6.0		6.0	1.8	ug/Kg	☼		03/12/16 14:08	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/12/16 14:08	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/12/16 14:08	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/12/16 14:08	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/12/16 14:08	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/12/16 14:08	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/12/16 14:08	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 14:08	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/12/16 14:08	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 14:08	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		03/12/16 14:08	1
Dibromofluoromethane	109		75 - 120		03/12/16 14:08	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/12/16 14:08	1
Toluene-d8 (Surr)	114		75 - 122		03/12/16 14:08	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	☼	03/11/16 14:52	03/17/16 16:57	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916D

Lab Sample ID: 500-108577-7

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼	03/11/16 14:52	03/17/16 16:57	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Acenaphthene	10	J	38	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Acenaphthylene	110		38	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Anthracene	160		38	6.5	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Benzo[a]anthracene	690		38	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Benzo[a]pyrene	640	*	38	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Benzo[b]fluoranthene	1200	*	38	8.3	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Benzo[g,h,i]perylene	220	*	38	12	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Benzo[k]fluoranthene	480	*	38	11	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Carbazole	<190		190	97	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Chrysene	710		38	11	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Dibenz(a,h)anthracene	65	*	38	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Fluoranthene	1600		38	7.2	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Fluorene	34	J	38	5.4	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916D

Lab Sample ID: 500-108577-7

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 84.0

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	280	*	38	10	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Isophorone	<190		190	43	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Phenanthrene	890		38	5.4	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Phenol	<190		190	86	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Pyrene	2300		38	7.7	ug/Kg	☼	03/11/16 14:52	03/17/16 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		35 - 137				03/11/16 14:52	03/17/16 16:57	1
2-Fluorobiphenyl	76		25 - 119				03/11/16 14:52	03/17/16 16:57	1
2-Fluorophenol	88		25 - 110				03/11/16 14:52	03/17/16 16:57	1
Nitrobenzene-d5	72		25 - 115				03/11/16 14:52	03/17/16 16:57	1
Phenol-d5	88		31 - 110				03/11/16 14:52	03/17/16 16:57	1
Terphenyl-d14	142	X	36 - 134				03/11/16 14:52	03/17/16 16:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Barium	0.30	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:41	1
Manganese	0.43		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:41	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:41	1
Zinc	0.11	J	0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Barium	0.21	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:11	1
Chromium	0.048		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Copper	0.031		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Iron	58		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:11	1
Lead	0.037		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:11	1
Manganese	0.80		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Nickel	0.037		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:11	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-1(0-1)-030916D

Lab Sample ID: 500-108577-7

Date Collected: 03/09/16 10:12

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 18:11	1
Zinc	0.43	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:11	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	☼	03/16/16 08:31	03/18/16 05:25	1
Arsenic	2.9		0.58	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Barium	39		0.58	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Beryllium	0.31		0.23	0.050	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Cadmium	0.087	J	0.12	0.033	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Calcium	24000	B	12	3.7	mg/Kg	☼	03/16/16 08:31	03/18/16 20:23	1
Chromium	6.5		0.58	0.099	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Cobalt	4.2		0.29	0.065	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Copper	5.9		0.58	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Iron	10000	B	12	4.4	mg/Kg	☼	03/16/16 08:31	03/18/16 20:23	1
Lead	22		0.29	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Magnesium	15000	B	5.8	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:23	1
Manganese	550		0.58	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Nickel	7.9		0.58	0.16	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Potassium	650		29	4.7	mg/Kg	☼	03/16/16 08:31	03/18/16 20:23	1
Selenium	0.64		0.58	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Sodium	360		58	7.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:23	1
Thallium	0.38	J	0.58	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Vanadium	13		0.29	0.084	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	1
Zinc	27		1.2	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 05:25	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		03/19/16 18:45	03/21/16 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		19	10	ug/Kg	☼	03/17/16 13:00	03/18/16 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			03/12/16 10:34	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-2(0-1)-030916

Lab Sample ID: 500-108577-8

Date Collected: 03/09/16 10:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/12/16 14:34	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 14:34	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/12/16 14:34	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 14:34	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 14:34	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/12/16 14:34	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 14:34	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 14:34	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/12/16 14:34	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/12/16 14:34	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 14:34	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 14:34	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 14:34	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/12/16 14:34	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/12/16 14:34	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 14:34	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/12/16 14:34	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 14:34	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/12/16 14:34	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 14:34	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 14:34	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 14:34	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 14:34	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 14:34	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/12/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/12/16 14:34	1
Dibromofluoromethane	112		75 - 120		03/12/16 14:34	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 14:34	1
Toluene-d8 (Surr)	112		75 - 122		03/12/16 14:34	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	☼	03/11/16 14:52	03/17/16 17:26	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-2(0-1)-030916

Lab Sample ID: 500-108577-8

Date Collected: 03/09/16 10:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Acenaphthylene	12	J	37	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Anthracene	7.6	J	37	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Benzo[a]anthracene	72		37	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Benzo[a]pyrene	110	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Benzo[b]fluoranthene	190	*	37	8.1	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Benzo[g,h,i]perylene	49	*	37	12	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Benzo[k]fluoranthene	66	*	37	11	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Carbazole	<190		190	94	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Chrysene	100		37	10	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Dibenz(a,h)anthracene	<37	*	37	7.3	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Fluoranthene	150		37	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-2(0-1)-030916

Lab Sample ID: 500-108577-8

Date Collected: 03/09/16 10:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	59	*	37	9.8	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Phenanthrene	56		37	5.2	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Phenol	<190		190	84	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Pyrene	260		37	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		35 - 137				03/11/16 14:52	03/17/16 17:26	1
2-Fluorobiphenyl	77		25 - 119				03/11/16 14:52	03/17/16 17:26	1
2-Fluorophenol	86		25 - 110				03/11/16 14:52	03/17/16 17:26	1
Nitrobenzene-d5	67		25 - 115				03/11/16 14:52	03/17/16 17:26	1
Phenol-d5	85		31 - 110				03/11/16 14:52	03/17/16 17:26	1
Terphenyl-d14	153	X	36 - 134				03/11/16 14:52	03/17/16 17:26	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		03/19/16 12:25	03/19/16 23:46	1
Barium	0.29	J	0.50	0.050	mg/L		03/19/16 12:25	03/19/16 23:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/19/16 23:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/19/16 23:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/19/16 23:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/19/16 23:46	1
Manganese	0.59		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/19/16 23:46	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/19/16 23:46	1
Zinc	1.6		0.50	0.020	mg/L		03/19/16 12:25	03/19/16 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Barium	0.32	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:15	1
Chromium	0.073		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Cobalt	0.015	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Copper	0.051		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Iron	88		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:15	1
Lead	0.073		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:15	1
Manganese	1.3		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Nickel	0.061		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:15	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-2(0-1)-030916

Lab Sample ID: 500-108577-8

Date Collected: 03/09/16 10:30

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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		03/18/16 15:11	03/19/16 18:15	1
Zinc	0.90		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:15	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	☼	03/16/16 08:31	03/18/16 05:30	1
Arsenic	2.6		0.57	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Barium	31		0.57	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Beryllium	0.26		0.23	0.049	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Cadmium	0.13		0.11	0.033	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Calcium	24000	B	11	3.7	mg/Kg	☼	03/16/16 08:31	03/18/16 20:29	1
Chromium	5.6		0.57	0.098	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Cobalt	3.5		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Copper	5.8		0.57	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Iron	7900	B	11	4.4	mg/Kg	☼	03/16/16 08:31	03/18/16 20:29	1
Lead	31		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Magnesium	11000	B	5.7	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:29	1
Manganese	350		0.57	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Nickel	6.1		0.57	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Potassium	440		28	4.6	mg/Kg	☼	03/16/16 08:31	03/18/16 20:29	1
Selenium	0.33	J	0.57	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Sodium	430		57	7.5	mg/Kg	☼	03/16/16 08:31	03/18/16 20:29	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Vanadium	10		0.28	0.083	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1
Zinc	30		1.1	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 05:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		17	8.7	ug/Kg	☼	03/17/16 13:00	03/18/16 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			03/12/16 10:39	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-4(0-1)-030916

Lab Sample ID: 500-108577-10

Date Collected: 03/09/16 10:50

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/12/16 15:23	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
Bromodichloromethane	<5.3		5.3	0.89	ug/Kg	☼		03/12/16 15:23	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
Bromomethane	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 15:23	1
Carbon disulfide	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 15:23	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
Chlorobenzene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/12/16 15:23	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/12/16 15:23	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 15:23	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/12/16 15:23	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
1,2-Dichloroethane	<5.3		5.3	0.78	ug/Kg	☼		03/12/16 15:23	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 15:23	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/12/16 15:23	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/12/16 15:23	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 15:23	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼		03/12/16 15:23	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/12/16 15:23	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 15:23	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
Methyl tert-butyl ether	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.84	ug/Kg	☼		03/12/16 15:23	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 15:23	1
Toluene	<5.3		5.3	1.8	ug/Kg	☼		03/12/16 15:23	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 15:23	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/12/16 15:23	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 15:23	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/12/16 15:23	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/12/16 15:23	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 15:23	1
Xylenes, Total	<11		11	1.9	ug/Kg	☼		03/12/16 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/12/16 15:23	1
Dibromofluoromethane	113		75 - 120		03/12/16 15:23	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/12/16 15:23	1
Toluene-d8 (Surr)	115		75 - 122		03/12/16 15:23	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	☼	03/11/16 14:52	03/17/16 17:55	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-4(0-1)-030916

Lab Sample ID: 500-108577-10

Date Collected: 03/09/16 10:50

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Chlorophenol	<180		180	59	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Benzo[a]anthracene	<35	*	35	4.7	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Benzo[a]pyrene	<35	*	35	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Benzo[b]fluoranthene	<35	*	35	7.5	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Bis(2-ethylhexyl) phthalate	77	J *	180	64	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Butyl benzyl phthalate	<180	*	180	66	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Carbazole	<180		180	87	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Chrysene	<35	*	35	9.5	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Dibenz(a,h)anthracene	<35	*	35	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Fluoranthene	<35		35	6.5	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-4(0-1)-030916

Lab Sample ID: 500-108577-10

Date Collected: 03/09/16 10:50

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.0

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	<35	*	35	9.0	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Isophorone	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Phenol	<180		180	77	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Pyrene	<35	*	35	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		35 - 137				03/11/16 14:52	03/17/16 17:55	1
2-Fluorobiphenyl	81		25 - 119				03/11/16 14:52	03/17/16 17:55	1
2-Fluorophenol	92		25 - 110				03/11/16 14:52	03/17/16 17:55	1
Nitrobenzene-d5	73		25 - 115				03/11/16 14:52	03/17/16 17:55	1
Phenol-d5	89		31 - 110				03/11/16 14:52	03/17/16 17:55	1
Terphenyl-d14	170	X *	36 - 134				03/11/16 14:52	03/17/16 17:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Barium	0.092	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:05	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:05	1
Manganese	5.3		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Nickel	0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:05	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:05	1
Zinc	2.1	B	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:05	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		03/18/16 15:11	03/19/16 18:23	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:23	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:23	1
Iron	<0.40		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:23	1
Manganese	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:23	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-4(0-1)-030916

Lab Sample ID: 500-108577-10

Date Collected: 03/09/16 10:50

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.0

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		03/18/16 15:11	03/19/16 18:23	1
Zinc	0.93		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:23	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.0	0.22	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Arsenic	1.3		0.52	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Barium	6.6		0.52	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Beryllium	0.24		0.21	0.045	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Cadmium	0.16		0.10	0.030	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Calcium	190000	B	100	33	mg/Kg	☼	03/16/16 08:31	03/19/16 21:06	10
Chromium	3.5		0.52	0.089	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Cobalt	2.5		0.26	0.059	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Copper	6.7		0.52	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Iron	7800	B	10	4.0	mg/Kg	☼	03/16/16 08:31	03/18/16 20:38	1
Lead	5.7		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Magnesium	110000		52	21	mg/Kg	☼	03/16/16 08:31	03/19/16 21:06	10
Manganese	460		0.52	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Nickel	4.0		0.52	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Potassium	600		26	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 20:38	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Sodium	200		52	6.9	mg/Kg	☼	03/16/16 08:31	03/18/16 20:38	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Vanadium	4.1		0.26	0.076	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	1
Zinc	7.2		1.0	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 05:39	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		03/19/16 18:45	03/21/16 09:18	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		03/18/16 17:45	03/19/16 14:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/17/16 13:00	03/18/16 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			03/12/16 10:48	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-5(0-1)-030916

Lab Sample ID: 500-108577-11

Date Collected: 03/09/16 11:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/12/16 15:48	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 15:48	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/12/16 15:48	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 15:48	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 15:48	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 15:48	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/12/16 15:48	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/12/16 15:48	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/12/16 15:48	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 15:48	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 15:48	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/12/16 15:48	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 15:48	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/12/16 15:48	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/12/16 15:48	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 15:48	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/12/16 15:48	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/12/16 15:48	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 15:48	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/12/16 15:48	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 15:48	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 15:48	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 15:48	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/12/16 15:48	1
Dibromofluoromethane	109		75 - 120		03/12/16 15:48	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/12/16 15:48	1
Toluene-d8 (Surr)	115		75 - 122		03/12/16 15:48	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	☼	03/11/16 14:52	03/17/16 18:24	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-5(0-1)-030916

Lab Sample ID: 500-108577-11

Date Collected: 03/09/16 11:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Methylnaphthalene	12	J	36	6.6	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Anthracene	8.5	J	36	6.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Benzo[a]anthracene	43	*	36	4.8	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Benzo[a]pyrene	43	*	36	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Benzo[b]fluoranthene	80	*	36	7.7	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Benzo[g,h,i]perylene	<36	*	36	12	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Benzo[k]fluoranthene	<36	*	36	11	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Bis(2-ethylhexyl) phthalate	93	J *	180	66	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Carbazole	<180		180	90	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Chrysene	56	*	36	9.8	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Dibenz(a,h)anthracene	<36	*	36	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Fluoranthene	62		36	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-5(0-1)-030916

Lab Sample ID: 500-108577-11

Date Collected: 03/09/16 11:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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	9.3	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Isophorone	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Phenanthrene	57		36	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Phenol	<180		180	80	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Pyrene	190	*	36	7.1	ug/Kg	☼	03/11/16 14:52	03/17/16 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	105		35 - 137				03/11/16 14:52	03/17/16 18:24	1
2-Fluorobiphenyl	90		25 - 119				03/11/16 14:52	03/17/16 18:24	1
2-Fluorophenol	101		25 - 110				03/11/16 14:52	03/17/16 18:24	1
Nitrobenzene-d5	79		25 - 115				03/11/16 14:52	03/17/16 18:24	1
Phenol-d5	97		31 - 110				03/11/16 14:52	03/17/16 18:24	1
Terphenyl-d14	236	X *	36 - 134				03/11/16 14:52	03/17/16 18:24	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		03/19/16 12:25	03/20/16 00:14	1
Barium	0.16	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Copper	0.020	J	0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:14	1
Manganese	1.4		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:14	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:14	1
Zinc	0.16	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:14	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		03/18/16 15:11	03/19/16 18:27	1
Barium	0.071	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:27	1
Chromium	0.020	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:27	1
Copper	0.057		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:27	1
Iron	20		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:27	1
Lead	0.039		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:27	1
Manganese	0.34		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:27	1
Nickel	0.016	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-5(0-1)-030916

Lab Sample ID: 500-108577-11

Date Collected: 03/09/16 11:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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		03/18/16 15:11	03/19/16 18:27	1
Zinc	0.21	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:27	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	☼	03/16/16 08:31	03/18/16 05:44	1
Arsenic	2.8		0.52	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Barium	25		0.52	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Beryllium	0.28		0.21	0.045	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Cadmium	0.053	J	0.10	0.030	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Calcium	30000	B	10	3.4	mg/Kg	☼	03/16/16 08:31	03/18/16 20:43	1
Chromium	5.9		0.52	0.090	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Cobalt	3.6		0.26	0.059	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Copper	5.1		0.52	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Iron	9600	B	10	4.0	mg/Kg	☼	03/16/16 08:31	03/18/16 20:43	1
Lead	13		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Magnesium	18000	B	5.2	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 20:43	1
Manganese	340		0.52	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Nickel	7.2		0.52	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Potassium	550		26	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 20:43	1
Selenium	0.29	J	0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Sodium	490		52	6.9	mg/Kg	☼	03/16/16 08:31	03/18/16 20:43	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Vanadium	11		0.26	0.076	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	1
Zinc	23		1.0	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 05:44	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		03/19/16 18:45	03/21/16 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	16	8.6	ug/Kg	☼	03/17/16 13:00	03/18/16 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			03/12/16 10:53	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-7(0-1)-030916

Lab Sample ID: 500-108577-13

Date Collected: 03/09/16 11:22

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 16:38	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 16:38	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/12/16 16:38	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 16:38	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 16:38	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/12/16 16:38	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 16:38	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 16:38	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/12/16 16:38	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/12/16 16:38	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 16:38	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 16:38	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 16:38	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/12/16 16:38	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/12/16 16:38	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 16:38	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/12/16 16:38	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 16:38	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/12/16 16:38	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 16:38	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 16:38	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 16:38	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 16:38	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 16:38	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/12/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/12/16 16:38	1
Dibromofluoromethane	111		75 - 120		03/12/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 16:38	1
Toluene-d8 (Surr)	115		75 - 122		03/12/16 16:38	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	☼	03/11/16 14:52	03/17/16 18:53	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-7(0-1)-030916

Lab Sample ID: 500-108577-13

Date Collected: 03/09/16 11:22

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼	03/11/16 14:52	03/17/16 18:53	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,4-Dinitrophenol	<730	*	730	640	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Methylnaphthalene	13	J	36	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Acenaphthene	21	J	36	6.5	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Acenaphthylene	200		36	4.8	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Anthracene	72		36	6.1	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Benzo[a]anthracene	760	*	36	4.9	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Benzo[a]pyrene	1100	*	36	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Benzo[b]fluoranthene	1900	*	36	7.9	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Benzo[g,h,i]perylene	660	*	36	12	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Benzo[k]fluoranthene	710	*	36	11	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Bis(2-ethylhexyl) phthalate	100	J *	180	67	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Carbazole	<180		180	91	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Chrysene	950	*	36	9.9	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Dibenz(a,h)anthracene	150	*	36	7.0	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Fluoranthene	1100		36	6.7	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Fluorene	34	J	36	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-7(0-1)-030916

Lab Sample ID: 500-108577-13

Date Collected: 03/09/16 11:22

Matrix: Solid

Date Received: 03/09/16 16:45

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	730	*	36	9.4	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Isophorone	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Naphthalene	14	J	36	5.6	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Phenanthrene	350		36	5.1	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Phenol	<180		180	81	ug/Kg	☼	03/11/16 14:52	03/17/16 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		35 - 137				03/11/16 14:52	03/17/16 18:53	1
2-Fluorobiphenyl	90		25 - 119				03/11/16 14:52	03/17/16 18:53	1
2-Fluorophenol	106		25 - 110				03/11/16 14:52	03/17/16 18:53	1
Nitrobenzene-d5	82		25 - 115				03/11/16 14:52	03/17/16 18:53	1
Phenol-d5	102		31 - 110				03/11/16 14:52	03/17/16 18:53	1
Terphenyl-d14	239	X *	36 - 134				03/11/16 14:52	03/17/16 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	2600	*	180	36	ug/Kg	☼	03/11/16 14:52	03/20/16 21:18	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		03/19/16 12:25	03/20/16 00:25	1
Barium	0.27	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:25	1
Manganese	0.45		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:25	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:25	1
Zinc	0.12	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Barium	0.23	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:43	1
Chromium	0.051		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Copper	0.030		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Iron	58		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:43	1
Lead	0.071		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:43	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: GL77-7(0-1)-030916

Lab Sample ID: 500-108577-13

Date Collected: 03/09/16 11:22

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.87		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Nickel	0.036		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:43	1
Silver	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:43	1
Zinc	0.19	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:43	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	☼	03/16/16 08:31	03/18/16 06:02	1
Arsenic	3.1		0.57	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Barium	33		0.57	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Beryllium	0.30		0.23	0.050	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Cadmium	0.064	J	0.11	0.033	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Calcium	13000	B	11	3.7	mg/Kg	☼	03/16/16 08:31	03/18/16 21:00	1
Chromium	6.2		0.57	0.099	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Cobalt	3.4		0.29	0.065	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Copper	4.8		0.57	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Iron	9400	B	11	4.4	mg/Kg	☼	03/16/16 08:31	03/18/16 21:00	1
Lead	18		0.29	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Magnesium	6900	B	5.7	2.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:00	1
Manganese	310		0.57	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Nickel	6.3		0.57	0.16	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Potassium	560		29	4.7	mg/Kg	☼	03/16/16 08:31	03/18/16 21:00	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Sodium	270		57	7.6	mg/Kg	☼	03/16/16 08:31	03/18/16 21:00	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Vanadium	12		0.29	0.084	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1
Zinc	22		1.1	0.36	mg/Kg	☼	03/16/16 08:31	03/18/16 06:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 09:24	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		03/18/16 17:45	03/19/16 15:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	17	8.9	ug/Kg	☼	03/17/16 13:00	03/18/16 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			03/12/16 11:03	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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
Phone: 708.534.5200 Fax: 708.5



500-108577 COC

Report To (optional)
Contact: S. Doherty-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 #: 500-108577
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.3

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Weston Solutions		02056-014-0400030		7	7	7	7	7			
Project Name		Lab Project #		Parameter							
IDOT 040-IL Route 113											
Project Location/State		Lab Project #		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SUP METALS	PH	Comments
Brendwood, IL											
Sampler		Lab PM									
M. Doherty-Kumar		D. Wright									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCUP/SUP METALS	PH
			Date	Time							
1		WL75-1(0-1)-030916	3-9-16	0830	2 S		X	X	X	X	X
2		R74-1(0-1)-030916		0840							
3		R74-2(0-1)-030916		0925							
4		R74-3(0-1)-030916		0935							
5		R74-4(0-1)-030916		0950							
6		GL77-1(0-1)-030916		1012							
7		GL77-1(0-1)-030916		1012							
8		GL77-2(0-1)-030916		1030							
9		GL77-3(0-1)-030916		1042							
10		GL77-4(0-1)-030916	3-9-16	1050	2 S		X	X	X	X	

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>Angie Paddy</u>	Company Weston	Date 3-9-2016	Time 1533	Received By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1533
Relinquished By <u>[Signature]</u>	Company TVA	Date 3/9/16	Time 1645	Received By <u>[Signature]</u>	Company TVA-CHT	Date 3/9/16	Time 1645
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TVA

Shipped:

Hand Delivered:

Matrix Key

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

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 202
Address: 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 #: 500-108577
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Preservative Key		
Weston Solutions		02056-04000-0030		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 #		Parameter		Parameter		Comments		
1D07040-IL Route 113										
Project Location/State		Lab Project #		Parameter		Parameter		Comments		
Braidwood, IL										
Sampler		Lab PM		Parameter		Parameter		Comments		
M. Doherty-Skabi		D. Wright								
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Parameter	Parameter	Comments	
			Date	Time						
11		GL77-5(0-1)-030916	3-9-16	1102	2	S	VOCS	SVOCs		
12		GL77-6(0-1)-030916		1112						
13		GL77-7(0-1)-030916		1122						
14		F78-1(0-1)-030916		1145						
15		F78-2(0-1)-030916		1155						
16		AL79-1(0-1)-030916		1207						
17		AL79-1(0-1)-030916D		1207						
18		AL79-2(0-1)-030916		1220						
19		AL79-3(0-1)-030916		1237						
20		AL83-1(0-1)-030916	3-9-16	1255	2	S	VOCS	SVOCs		

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>Angie Toody</u>	Company Weston	Date 3-9-2016	Time 1533	Received By <u>[Signature]</u>	Company TA	Date 3/9/16	Time 1533	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company TA	Date 3/9/16	Time 1645	Received By <u>[Signature]</u>	Company TA-CA	Date 3/9/16	Time 1645	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):
20421-20431 W. IL 113, (ISGS Site No. 2948-78)

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: 41.233663156 Longitude: -88.101389596
(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: 41.233663156 Longitude: -88.101389596

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 F78-1 AND F78-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-78. SEE FIGURE 3-12 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: 500-108577-1.
ALSO SEE FIGURE 4-12 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:



Summary Table of ISGS Site No. 2948-78
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	F78-1(0-1)-030916	F78-2(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	
Location ID	F78-1	F78-2	
Depth	0 - 1	0 - 1	
Location Code	2948-78	2948-78	
Parameter			
Laboratory pH	7.63	7.88	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	46 J	240 J	900 / 1100 / 1800
Benzo(a)pyrene	60 J	260 J	90 / 1300 / 2100
Benzo(b)fluoranthene	100 J	350 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	140 J	90
Indeno(1,2,3-cd)pyrene	44 J	720 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	1.6	1.7	11.3 / 13
Barium, Total	23	12	1500
Beryllium, Total	0.19 J	0.15 J	22
Cadmium, Total	0.072 J	0.068 J	5.2
Calcium, Total	9800 J	56000 J	---
Chromium, Total	4.6	3.2	21
Iron, Total	5700 J+	4400 J+	15000 / 15900
Lead, Total	12 J	10 J	107
Manganese, Total	180 J+	160 J+	630 / 636
Mercury, Total	ND	ND	0.89
Nickel, Total	4.8	4.2	100
Potassium, Total	380 J+	370 J+	---
Selenium, Total	0.3 J	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	20	17	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.24 J	0.16 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	0.91	1.6	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
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.16 J	0.09 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.031	0.018 J	0.1
Iron, SPLP	29	18	5
Lead, SPLP	0.047 J	0.046 J	0.0075
Manganese, SPLP	0.43	0.37	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.022 J	0.017 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.93	0.11 J	5

Summary Table of ISGS Site No. 2948-78
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.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108577-1

Client Sample ID: F78-1(0-1)-030916

Lab Sample ID: 500-108577-14

Date Collected: 03/09/16 11:45

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 17:04	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 17:04	1
Bromodichloromethane	<5.5		5.5	0.94	ug/Kg	☼		03/12/16 17:04	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 17:04	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 17:04	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 17:04	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/12/16 17:04	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/12/16 17:04	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/12/16 17:04	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 17:04	1
1,2-Dichloropropane	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 17:04	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/12/16 17:04	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 17:04	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/12/16 17:04	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/12/16 17:04	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 17:04	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/12/16 17:04	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 17:04	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/12/16 17:04	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 17:04	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/12/16 17:04	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 17:04	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 17:04	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 17:04	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/12/16 17:04	1
Dibromofluoromethane	108		75 - 120		03/12/16 17:04	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/12/16 17:04	1
Toluene-d8 (Surr)	114		75 - 122		03/12/16 17:04	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	☼	03/11/16 14:52	03/17/16 19:22	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-1(0-1)-030916

Lab Sample ID: 500-108577-14

Date Collected: 03/09/16 11:45

Matrix: Solid

Date Received: 03/09/16 16:45

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	82	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Methylnaphthalene	11	J	36	6.6	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Acenaphthylene	6.9	J	36	4.7	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Anthracene	6.8	J	36	6.0	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Benzo[a]anthracene	46	*	36	4.8	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Benzo[a]pyrene	60	*	36	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Benzo[b]fluoranthene	100	*	36	7.7	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Benzo[g,h,i]perylene	43	*	36	12	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Benzo[k]fluoranthene	47	*	36	11	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Bis(2-ethylhexyl) phthalate	94	J *	180	65	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Carbazole	<180		180	89	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Chrysene	65	*	36	9.8	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Dibenz(a,h)anthracene	<36	*	36	6.9	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Fluoranthene	66		36	6.6	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-1(0-1)-030916

Lab Sample ID: 500-108577-14

Date Collected: 03/09/16 11:45

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 90.1

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	44	*	36	9.3	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Isophorone	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Phenanthrene	81		36	5.0	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Phenol	<180		180	80	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Pyrene	190	*	36	7.1	ug/Kg	☼	03/11/16 14:52	03/17/16 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		35 - 137				03/11/16 14:52	03/17/16 19:22	1
2-Fluorobiphenyl	83		25 - 119				03/11/16 14:52	03/17/16 19:22	1
2-Fluorophenol	91		25 - 110				03/11/16 14:52	03/17/16 19:22	1
Nitrobenzene-d5	75		25 - 115				03/11/16 14:52	03/17/16 19:22	1
Phenol-d5	87		31 - 110				03/11/16 14:52	03/17/16 19:22	1
Terphenyl-d14	217	X*	36 - 134				03/11/16 14:52	03/17/16 19:22	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		03/19/16 12:25	03/20/16 00:30	1
Barium	0.24	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:30	1
Manganese	0.91		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:30	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:30	1
Zinc	0.90		0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:30	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		03/18/16 15:11	03/19/16 18:47	1
Barium	0.16	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:47	1
Chromium	0.031		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:47	1
Copper	0.020	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:47	1
Iron	29		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:47	1
Lead	0.047		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:47	1
Manganese	0.43		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:47	1
Nickel	0.022	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-1(0-1)-030916

Lab Sample ID: 500-108577-14

Date Collected: 03/09/16 11:45

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 18:47	1
Zinc	0.93		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:47	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	☼	03/16/16 08:31	03/18/16 06:06	1
Arsenic	1.6		0.55	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Barium	23		0.55	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Beryllium	0.19	J	0.22	0.047	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Cadmium	0.072	J	0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Calcium	9800	B	11	3.5	mg/Kg	☼	03/16/16 08:31	03/18/16 21:04	1
Chromium	4.6		0.55	0.094	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Cobalt	2.1		0.27	0.062	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Copper	3.6		0.55	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Iron	5700	B	11	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:04	1
Lead	12		0.27	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Magnesium	5700	B	5.5	2.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:04	1
Manganese	180		0.55	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Potassium	380		27	4.5	mg/Kg	☼	03/16/16 08:31	03/18/16 21:04	1
Selenium	0.30	J	0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Sodium	120		55	7.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:04	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Vanadium	8.4		0.27	0.080	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	1
Zinc	20		1.1	0.35	mg/Kg	☼	03/16/16 08:31	03/18/16 06:06	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		03/19/16 18:45	03/21/16 09:26	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		03/18/16 17:45	03/19/16 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.7	ug/Kg	☼	03/17/16 13:00	03/18/16 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			03/12/16 11:08	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-2(0-1)-030916

Lab Sample ID: 500-108577-15

Date Collected: 03/09/16 11:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 94.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/12/16 17:29	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 17:29	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/12/16 17:29	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/12/16 17:29	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/12/16 17:29	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/12/16 17:29	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/12/16 17:29	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 17:29	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/12/16 17:29	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/12/16 17:29	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 17:29	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/12/16 17:29	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/12/16 17:29	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼		03/12/16 17:29	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/12/16 17:29	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/12/16 17:29	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 17:29	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.84	ug/Kg	☼		03/12/16 17:29	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/12/16 17:29	1
Toluene	<5.3		5.3	1.8	ug/Kg	☼		03/12/16 17:29	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/12/16 17:29	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/12/16 17:29	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/12/16 17:29	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/12/16 17:29	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/12/16 17:29	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/12/16 17:29	1
Dibromofluoromethane	111		75 - 120		03/12/16 17:29	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/12/16 17:29	1
Toluene-d8 (Surr)	116		75 - 122		03/12/16 17:29	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	☼	03/11/16 14:52	03/18/16 18:25	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-2(0-1)-030916

Lab Sample ID: 500-108577-15

Date Collected: 03/09/16 11:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 94.2

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	☼	03/11/16 14:52	03/18/16 18:25	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4,6-Dinitro-2-methylphenol	<700	*	700	280	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Bromophenyl phenyl ether	<170	*	170	46	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Acenaphthylene	69		34	4.6	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Anthracene	47	*	34	5.8	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Benzo[a]anthracene	240	*	34	4.7	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Benzo[a]pyrene	260	*	34	6.7	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Benzo[b]fluoranthene	350	*	34	7.5	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Benzo[g,h,i]perylene	1200	*	34	11	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Benzo[k]fluoranthene	100	*	34	10	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Bis(2-ethylhexyl) phthalate	170	*	170	63	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Carbazole	<170	*	170	86	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Chrysene	280	*	34	9.4	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Dibenz(a,h)anthracene	140	*	34	6.7	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Di-n-butyl phthalate	<170	*	170	53	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Di-n-octyl phthalate	<170	*	170	56	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Fluoranthene	300	*	34	6.4	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Fluorene	16	J	34	4.9	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Hexachlorobenzene	<70	*	70	8.0	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-2(0-1)-030916

Lab Sample ID: 500-108577-15

Date Collected: 03/09/16 11:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 94.2

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	720	*	34	9.0	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Isophorone	<170		170	39	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
N-Nitrosodiphenylamine	<170	*	170	41	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Pentachlorophenol	<700	*	700	560	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Phenanthrene	270	*	34	4.8	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Phenol	<170		170	77	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Pyrene	1000	*	34	6.9	ug/Kg	☼	03/11/16 14:52	03/18/16 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				03/11/16 14:52	03/18/16 18:25	1
2-Fluorobiphenyl	118		25 - 119				03/11/16 14:52	03/18/16 18:25	1
2-Fluorophenol	109		25 - 110				03/11/16 14:52	03/18/16 18:25	1
Nitrobenzene-d5	104		25 - 115				03/11/16 14:52	03/18/16 18:25	1
Phenol-d5	89		31 - 110				03/11/16 14:52	03/18/16 18:25	1
Terphenyl-d14	224	X*	36 - 134				03/11/16 14:52	03/18/16 18:25	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		03/19/16 12:25	03/20/16 00:35	1
Barium	0.16	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:35	1
Manganese	1.6		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:35	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:35	1
Zinc	0.072	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:35	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		03/18/16 15:11	03/19/16 18:52	1
Barium	0.090	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:52	1
Chromium	0.018	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:52	1
Copper	0.016	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:52	1
Iron	18		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:52	1
Lead	0.046		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:52	1
Manganese	0.37		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:52	1
Nickel	0.017	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: F78-2(0-1)-030916

Lab Sample ID: 500-108577-15

Date Collected: 03/09/16 11:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 94.2

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		03/18/16 15:11	03/19/16 18:52	1
Zinc	0.11	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:52	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	☼	03/16/16 08:31	03/18/16 06:10	1
Arsenic	1.7		0.52	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Barium	12		0.52	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Beryllium	0.15	J	0.21	0.045	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Cadmium	0.068	J	0.10	0.030	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Calcium	56000	B	52	17	mg/Kg	☼	03/16/16 08:31	03/18/16 21:13	5
Chromium	3.2		0.52	0.089	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Cobalt	1.7		0.26	0.059	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Copper	2.8		0.52	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Iron	4400	B	10	4.0	mg/Kg	☼	03/16/16 08:31	03/18/16 21:08	1
Lead	10		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Magnesium	30000	B	5.2	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:08	1
Manganese	160		0.52	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Nickel	4.2		0.52	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Potassium	370		26	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:08	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Sodium	160		52	6.8	mg/Kg	☼	03/16/16 08:31	03/18/16 21:08	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Vanadium	6.0		0.26	0.076	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	1
Zinc	17		1.0	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 06:10	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		03/19/16 18:45	03/21/16 09:32	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		03/18/16 17:45	03/19/16 15:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<15		15	8.0	ug/Kg	☼	03/17/16 13:00	03/18/16 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			03/12/16 11:13	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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

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Contact: S. Babusukumar
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Bill To (optional)
Contact: same
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108577
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 #		Parameter		VOCS	SVOCs	TOTAL Metals	TCUP/SPLP Metals	PH		
Project Location/State		Lab PM		Parameter								
Sampler		Lab PM		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments
11		GL77-5(0-1)-030916	3-9-16	1102	2	S	X	X	X	X	X	
12		GL77-6(0-1)-030916		1112								
13		GL77-7(0-1)-030916		1122								
14		F78-1(0-1)-030916		1145								
15		F78-2(0-1)-030916		1155								
16		AL79-1(0-1)-030916		1207								
17		AL79-1(0-1)-030916D		1207								
18		AL79-2(0-1)-030916		1220								
19		AL79-3(0-1)-030916		1237								
20		AL83-1(0-1)-030916	3-9-16	1255	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>[Signature]</u> Company: <u>Weston</u> Date: <u>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</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):
20000-20300 blocks of W. IL 113, (ISGS Site No. 2948-79)

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: 41.233239384 Longitude: -88.097104382
(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: 41.233239384 Longitude: -88.097104382

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 AL79-1 THROUGH AL79-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-79. SEE FIGURE 3-12 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 IDs: 500-108577-1 AND 500-108728-1.
ALSO SEE FIGURE 4-12 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. 2948-79
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	AL79-1(0-1)-030916	AL79-1(0-1)-030916D	AL79-2(0-1)-030916	AL79-3(0-1)-030916	AL79-4(0-1)-031116	AL79-4(0-1)-031116D	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/11/2016	3/11/2016	
Location ID	AL79-1	AL79-1	AL79-2	AL79-3	AL79-4	AL79-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-79	2948-79	2948-79	2948-79	2948-79	2948-79	
Parameter							
Laboratory pH	8.36	8.43	8.05	8.56	7.69	7.81	<6.25,>9.0
VOCs (ug/kg)	None Detected						
SVOCs (ug/kg)							
Benzo(a)anthracene	20 J	ND	54 J	35 J	43 J	120 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	62 J	47 J	55 J	150 J	90 / 1300 / 2100
Benzo(b)fluoranthene	29 J	ND	68 J	29 J	87 J	230 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	20 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	ND	19 J	ND	23 J	69 J	900 / 900 / 1600
Total Metals (mg/kg)							
Arsenic, Total	1.7	1.4	3.3	1.6	2 J	1.6 J	11.3 / 13
Barium, Total	33	24	36	13	12	13	1500
Beryllium, Total	0.18 J	0.19 J	0.24	0.15 J	0.13 J	0.13 J	22
Cadmium, Total	0.076 J	0.042 J	0.078 J	0.047 J	0.059 J	0.061 J	5.2
Calcium, Total	7400 J	11000 J	13000 J	54000 J	45000 J	44000 J	---
Chromium, Total	4.2	3.8	5.9	3.5	2.7	2.8	21
Iron, Total	5000 J+	5300 J+	8500 J+	4300 J+	4300 J	4200 J	15000 / 15900
Lead, Total	14 J	13 J	14 J	8.7 J	12 J+	12 J+	107
Manganese, Total	410 J	230 J	350 J+	160 J+	180 J-	190 J-	630 / 636
Mercury, Total	0.0098 J	ND	0.017 J	ND	ND	ND	0.89
Nickel, Total	4.4	3.9	7.4	4.3	3.8 J	3.7 J	100
Potassium, Total	320 J+	310 J+	540 J+	330 J+	200	210	---
Selenium, Total	0.35 J	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	16	14	25	13	15	14	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.27 J	0.29 J	0.3 J	0.16 J	0.17 J	0.18 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	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1	1.1	1	1.6	1.6	1.6	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	ND	ND	ND	ND	1.4 J	0.21 J	5

Summary Table of ISGS Site No. 2948-79
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	AL79-1(0-1)-030916	AL79-1(0-1)-030916D	AL79-2(0-1)-030916	AL79-3(0-1)-030916	AL79-4(0-1)-031116	AL79-4(0-1)-031116D	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/11/2016	3/11/2016	
Location ID	AL79-1	AL79-1	AL79-2	AL79-3	AL79-4	AL79-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-79	2948-79	2948-79	2948-79	2948-79	2948-79	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	ND	ND	0.04 J	ND	ND	ND	0.05
Barium, SPLP	0.12 J	0.12 J	0.34 J	0.097 J	0.061 J	0.08 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.019 J	0.02 J	0.064	0.022 J	0.011 J	0.015 J	0.1
Iron, SPLP	18	18	95	23	11 J-	17 J-	5
Lead, SPLP	0.047 J	0.047 J	0.065 J	0.033 J	0.023	0.033	0.0075
Manganese, SPLP	0.57	0.54	1.4	0.46	0.19	0.28	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.015 J	0.013 J	0.06	0.017 J	ND	0.012 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	1	0.27 J	0.36 J	0.097 J	0.049 J	0.064 J	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

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

LINKS

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results through
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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
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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: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916

Lab Sample ID: 500-108577-16

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/12/16 17:54	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 17:54	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/12/16 17:54	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 17:54	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 17:54	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 17:54	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/12/16 17:54	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 17:54	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/12/16 17:54	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/12/16 17:54	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 17:54	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 17:54	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 17:54	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/12/16 17:54	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/12/16 17:54	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 17:54	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/12/16 17:54	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 17:54	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 17:54	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 17:54	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 17:54	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 17:54	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 17:54	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/12/16 17:54	1
Dibromofluoromethane	111		75 - 120		03/12/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/12/16 17:54	1
Toluene-d8 (Surr)	118		75 - 122		03/12/16 17:54	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	☼	03/20/16 10:00	03/20/16 17:57	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916

Lab Sample ID: 500-108577-16

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
3,3'-Dichlorobenzidine	<180 *		180	49	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Benzo[a]anthracene	20 J *		35	4.7	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Benzo[a]pyrene	<35 *		35	6.8	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Benzo[b]fluoranthene	29 J *		35	7.6	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Benzo[g,h,i]perylene	30 J *		35	11	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Benzo[k]fluoranthene	<35 *		35	10	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Bis(2-ethylhexyl) phthalate	<180 *		180	64	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Butyl benzyl phthalate	<180 *		180	67	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Carbazole	<180		180	88	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Chrysene	23 J *		35	9.6	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Dibenz(a,h)anthracene	<35 *		35	6.8	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Fluoranthene	22 J		35	6.5	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916

Lab Sample ID: 500-108577-16

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.1

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	<35	*	35	9.1	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Isophorone	<180		180	40	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Phenanthrene	21	J	35	4.9	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Phenol	<180		180	78	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1
Pyrene	85	*	35	7.0	ug/Kg	☼	03/20/16 10:00	03/20/16 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		35 - 137	03/20/16 10:00	03/20/16 17:57	1
2-Fluorobiphenyl	87		25 - 119	03/20/16 10:00	03/20/16 17:57	1
2-Fluorophenol	108		25 - 110	03/20/16 10:00	03/20/16 17:57	1
Nitrobenzene-d5	75		25 - 115	03/20/16 10:00	03/20/16 17:57	1
Phenol-d5	101		31 - 110	03/20/16 10:00	03/20/16 17:57	1
Terphenyl-d14	234	X *	36 - 134	03/20/16 10:00	03/20/16 17:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Barium	0.27	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:41	1
Manganese	1.0		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:41	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:41	1
Zinc	0.31	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:41	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		03/18/16 15:11	03/19/16 18:56	1
Barium	0.12	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 18:56	1
Chromium	0.019	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:56	1
Copper	0.014	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:56	1
Iron	18		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 18:56	1
Lead	0.047		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 18:56	1
Manganese	0.57		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:56	1
Nickel	0.015	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 18:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916

Lab Sample ID: 500-108577-16

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.1

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		03/18/16 15:11	03/19/16 18:56	1
Zinc	1.0		0.50	0.020	mg/L		03/18/16 15:11	03/19/16 18:56	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	☼	03/16/16 08:31	03/18/16 06:15	1
Arsenic	1.7		0.52	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Barium	33		0.52	0.096	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Beryllium	0.18	J	0.21	0.045	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Cadmium	0.076	J	0.10	0.030	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Calcium	7400	B	10	3.4	mg/Kg	☼	03/16/16 08:31	03/18/16 21:18	1
Chromium	4.2		0.52	0.090	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Cobalt	4.0		0.26	0.059	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Copper	3.0		0.52	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Iron	5000	B	10	4.0	mg/Kg	☼	03/16/16 08:31	03/18/16 21:18	1
Lead	14		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Magnesium	4300	B	5.2	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:18	1
Manganese	410		0.52	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Nickel	4.4		0.52	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Potassium	320		26	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:18	1
Selenium	0.35	J	0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Sodium	170		52	6.9	mg/Kg	☼	03/16/16 08:31	03/18/16 21:18	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Vanadium	8.1		0.26	0.076	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	1
Zinc	16		1.0	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 06:15	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		03/19/16 18:45	03/21/16 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.8	J	16	8.6	ug/Kg	☼	03/17/16 13:00	03/18/16 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			03/12/16 11:18	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916D

Lab Sample ID: 500-108577-17

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/12/16 18:19	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 18:19	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/12/16 18:19	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 18:19	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 18:19	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 18:19	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/12/16 18:19	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 18:19	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/12/16 18:19	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/12/16 18:19	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 18:19	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 18:19	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 18:19	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/12/16 18:19	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/12/16 18:19	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 18:19	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/12/16 18:19	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 18:19	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 18:19	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 18:19	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 18:19	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/12/16 18:19	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 18:19	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 18:19	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/12/16 18:19	1
Dibromofluoromethane	106		75 - 120		03/12/16 18:19	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/12/16 18:19	1
Toluene-d8 (Surr)	119		75 - 122		03/12/16 18:19	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	☼	03/11/16 14:52	03/18/16 19:16	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916D

Lab Sample ID: 500-108577-17

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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	☼	03/11/16 14:52	03/18/16 19:16	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,4-Dinitrophenol	<690	*	690	600	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4,6-Dinitro-2-methylphenol	<690	*	690	270	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Bromophenyl phenyl ether	<170	*	170	45	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
4-Nitrophenol	<690		690	320	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Acenaphthylene	9.1	J	34	4.5	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Anthracene	5.7	J*	34	5.7	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Benzo[a]anthracene	<34	*	34	4.6	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Benzo[a]pyrene	<34	*	34	6.6	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Benzo[b]fluoranthene	<34	*	34	7.4	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Benzo[g,h,i]perylene	<34	*	34	11	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Benzo[k]fluoranthene	<34	*	34	10	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Bis(2-ethylhexyl) phthalate	120	J*	170	62	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Carbazole	<170	*	170	85	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Chrysene	<34	*	34	9.3	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Dibenz(a,h)anthracene	<34	*	34	6.6	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Di-n-butyl phthalate	<170	*	170	52	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Di-n-octyl phthalate	<170	*	170	56	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Fluoranthene	19	J*	34	6.3	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Hexachlorobenzene	<69	*	69	7.9	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916D

Lab Sample ID: 500-108577-17

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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	<34	*	34	8.9	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Isophorone	<170		170	38	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
N-Nitrosodiphenylamine	<170	*	170	40	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Pentachlorophenol	<690	*	690	550	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Phenanthrene	26	J *	34	4.8	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Phenol	<170		170	76	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Pyrene	71	*	34	6.8	ug/Kg	☼	03/11/16 14:52	03/18/16 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				03/11/16 14:52	03/18/16 19:16	1
2-Fluorobiphenyl	106		25 - 119				03/11/16 14:52	03/18/16 19:16	1
2-Fluorophenol	102		25 - 110				03/11/16 14:52	03/18/16 19:16	1
Nitrobenzene-d5	96		25 - 115				03/11/16 14:52	03/18/16 19:16	1
Phenol-d5	98		31 - 110				03/11/16 14:52	03/18/16 19:16	1
Terphenyl-d14	181	X *	36 - 134				03/11/16 14:52	03/18/16 19:16	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		03/19/16 12:25	03/20/16 00:46	1
Barium	0.29	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:46	1
Manganese	1.1		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:46	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:46	1
Zinc	0.14	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 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		03/18/16 15:11	03/19/16 19:00	1
Barium	0.12	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 19:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 19:00	1
Chromium	0.020	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:00	1
Copper	0.013	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:00	1
Iron	18		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 19:00	1
Lead	0.047		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 19:00	1
Manganese	0.54		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:00	1
Nickel	0.013	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 19:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-1(0-1)-030916D

Lab Sample ID: 500-108577-17

Date Collected: 03/09/16 12:07

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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		03/18/16 15:11	03/19/16 19:00	1
Zinc	0.27	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 19:00	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	☼	03/16/16 08:31	03/18/16 06:19	1
Arsenic	1.4		0.53	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Barium	24		0.53	0.097	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Beryllium	0.19	J	0.21	0.046	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Cadmium	0.042	J	0.11	0.031	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Calcium	11000	B	11	3.4	mg/Kg	☼	03/16/16 08:31	03/18/16 21:22	1
Chromium	3.8		0.53	0.091	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Cobalt	2.1		0.26	0.060	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Copper	2.8		0.53	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Iron	5300	B	11	4.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:22	1
Lead	13		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Magnesium	5600	B	5.3	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:22	1
Manganese	230		0.53	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Nickel	3.9		0.53	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Potassium	310		26	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:22	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Sodium	170		53	7.0	mg/Kg	☼	03/16/16 08:31	03/18/16 21:22	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Vanadium	7.0		0.26	0.077	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	1
Zinc	14		1.1	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 06:19	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		03/19/16 18:45	03/21/16 09:36	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		03/18/16 17:45	03/19/16 15:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.7	ug/Kg	☼	03/17/16 13:00	03/18/16 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			03/12/16 11:22	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-2(0-1)-030916

Lab Sample ID: 500-108577-18

Date Collected: 03/09/16 12:20

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/12/16 18:45	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 18:45	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/12/16 18:45	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 18:45	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/12/16 18:45	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/12/16 18:45	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 18:45	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/12/16 18:45	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 18:45	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 18:45	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/12/16 18:45	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 18:45	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/12/16 18:45	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/12/16 18:45	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/12/16 18:45	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/12/16 18:45	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/12/16 18:45	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/12/16 18:45	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/12/16 18:45	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/12/16 18:45	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 18:45	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/12/16 18:45	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/12/16 18:45	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/12/16 18:45	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/12/16 18:45	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/12/16 18:45	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/12/16 18:45	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/12/16 18:45	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/12/16 18:45	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/12/16 18:45	1
Dibromofluoromethane	112		75 - 120		03/12/16 18:45	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 18:45	1
Toluene-d8 (Surr)	120		75 - 122		03/12/16 18:45	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	39	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-2(0-1)-030916

Lab Sample ID: 500-108577-18

Date Collected: 03/09/16 12:20

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼	03/20/16 10:00	03/20/16 18:25	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Methylnaphthalene	36		36	6.7	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Acenaphthylene	6.9 J		36	4.8	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Anthracene	11 J		36	6.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Benzo[a]anthracene	54 *		36	4.9	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Benzo[a]pyrene	62 *		36	7.0	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Benzo[b]fluoranthene	68 *		36	7.8	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Benzo[g,h,i]perylene	65 *		36	12	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Carbazole	<180		180	91	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Chrysene	79 *		36	9.9	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Fluoranthene	51		36	6.7	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-2(0-1)-030916

Lab Sample ID: 500-108577-18

Date Collected: 03/09/16 12:20

Matrix: Solid

Date Received: 03/09/16 16:45

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	19	J *	36	9.4	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Isophorone	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Naphthalene	7.9	J	36	5.6	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Phenanthrene	180		36	5.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Phenol	<180		180	81	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Pyrene	280	*	36	7.2	ug/Kg	☼	03/20/16 10:00	03/20/16 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		35 - 137				03/20/16 10:00	03/20/16 18:25	1
2-Fluorobiphenyl	79		25 - 119				03/20/16 10:00	03/20/16 18:25	1
2-Fluorophenol	91		25 - 110				03/20/16 10:00	03/20/16 18:25	1
Nitrobenzene-d5	67		25 - 115				03/20/16 10:00	03/20/16 18:25	1
Phenol-d5	87		31 - 110				03/20/16 10:00	03/20/16 18:25	1
Terphenyl-d14	209	X *	36 - 134				03/20/16 10:00	03/20/16 18:25	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		03/19/16 12:25	03/20/16 00:59	1
Barium	0.30	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 00:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 00:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 00:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 00:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 00:59	1
Manganese	1.0		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 00:59	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 00:59	1
Zinc	0.41	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Barium	0.34	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 19:04	1
Chromium	0.064		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Copper	0.048		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Iron	95		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 19:04	1
Lead	0.065		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 19:04	1
Manganese	1.4		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Nickel	0.060		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 19:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-2(0-1)-030916

Lab Sample ID: 500-108577-18

Date Collected: 03/09/16 12:20

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:11	03/19/16 19:04	1
Zinc	0.36	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 19:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Arsenic	3.3		0.55	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Barium	36		0.55	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Beryllium	0.24		0.22	0.048	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Cadmium	0.078	J	0.11	0.032	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Calcium	13000	B	11	3.5	mg/Kg	☼	03/16/16 08:31	03/18/16 21:26	1
Chromium	5.9		0.55	0.095	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Cobalt	4.4		0.28	0.062	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Copper	5.2		0.55	0.12	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Iron	8500	B	11	4.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:26	1
Lead	14		0.28	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Magnesium	7800	B	5.5	2.2	mg/Kg	☼	03/16/16 08:31	03/18/16 21:26	1
Manganese	350		0.55	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Nickel	7.4		0.55	0.15	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Potassium	540		28	4.5	mg/Kg	☼	03/16/16 08:31	03/18/16 21:26	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Sodium	290		55	7.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:26	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Vanadium	11		0.28	0.080	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	1
Zinc	25		1.1	0.35	mg/Kg	☼	03/16/16 08:31	03/18/16 06:24	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		03/19/16 18:45	03/21/16 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17	J	18	9.6	ug/Kg	☼	03/17/16 13:00	03/18/16 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			03/12/16 11:27	1

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-3(0-1)-030916

Lab Sample ID: 500-108577-19

Date Collected: 03/09/16 12:37

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/12/16 19:11	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 19:11	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/12/16 19:11	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 19:11	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 19:11	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 19:11	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/12/16 19:11	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 19:11	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/12/16 19:11	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/12/16 19:11	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 19:11	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 19:11	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 19:11	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/12/16 19:11	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/12/16 19:11	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 19:11	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/12/16 19:11	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 19:11	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 19:11	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 19:11	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 19:11	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/12/16 19:11	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 19:11	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 19:11	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/12/16 19:11	1
Dibromofluoromethane	108		75 - 120		03/12/16 19:11	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 19:11	1
Toluene-d8 (Surr)	118		75 - 122		03/12/16 19:11	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	☼	03/11/16 14:52	03/18/16 20:07	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-3(0-1)-030916

Lab Sample ID: 500-108577-19

Date Collected: 03/09/16 12:37

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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	☼	03/11/16 14:52	03/18/16 20:07	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4,6-Dinitro-2-methylphenol	<700	*	700	280	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Bromophenyl phenyl ether	<180	*	180	46	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Acenaphthylene	6.6	J	35	4.6	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Anthracene	7.8	J *	35	5.8	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Benzo[a]anthracene	35	*	35	4.7	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Benzo[a]pyrene	47	*	35	6.8	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Benzo[b]fluoranthene	29	J *	35	7.5	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Bis(2-ethylhexyl) phthalate	170	J *	180	64	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Butyl benzyl phthalate	<180	*	180	66	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Carbazole	<180	*	180	87	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Chrysene	39	*	35	9.5	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Dibenz(a,h)anthracene	<35	*	35	6.7	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Di-n-butyl phthalate	<180	*	180	53	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Di-n-octyl phthalate	<180	*	180	57	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Fluoranthene	28	J *	35	6.5	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Hexachlorobenzene	<70	*	70	8.1	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-3(0-1)-030916

Lab Sample ID: 500-108577-19

Date Collected: 03/09/16 12:37

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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	9.1	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Isophorone	<180		180	39	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
N-Nitrosodiphenylamine	<180	*	180	41	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Pentachlorophenol	<700	*	700	560	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Phenanthrene	32	J *	35	4.9	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Phenol	<180		180	78	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1
Pyrene	120	*	35	6.9	ug/Kg	☼	03/11/16 14:52	03/18/16 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137	03/11/16 14:52	03/18/16 20:07	1
2-Fluorobiphenyl	107		25 - 119	03/11/16 14:52	03/18/16 20:07	1
2-Fluorophenol	107		25 - 110	03/11/16 14:52	03/18/16 20:07	1
Nitrobenzene-d5	90		25 - 115	03/11/16 14:52	03/18/16 20:07	1
Phenol-d5	102		31 - 110	03/11/16 14:52	03/18/16 20:07	1
Terphenyl-d14	186	X *	36 - 134	03/11/16 14:52	03/18/16 20:07	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		03/19/16 12:25	03/20/16 01:05	1
Barium	0.16	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 01:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 01:05	1
Manganese	1.6		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 01:05	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:05	1
Zinc	0.063	J	0.50	0.020	mg/L		03/19/16 12:25	03/20/16 01:05	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		03/18/16 15:11	03/19/16 19:08	1
Barium	0.097	J	0.50	0.050	mg/L		03/18/16 15:11	03/19/16 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 19:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 19:08	1
Chromium	0.022	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:08	1
Copper	0.015	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:08	1
Iron	23		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 19:08	1
Lead	0.033		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 19:08	1
Manganese	0.46		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:08	1
Nickel	0.017	J	0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 19:08	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL79-3(0-1)-030916

Lab Sample ID: 500-108577-19

Date Collected: 03/09/16 12:37

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.5

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		03/18/16 15:11	03/19/16 19:08	1
Zinc	0.097	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 19:08	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	☼	03/16/16 08:31	03/18/16 06:28	1
Arsenic	1.6		0.52	0.24	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Barium	13		0.52	0.096	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Beryllium	0.15	J	0.21	0.045	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Cadmium	0.047	J	0.10	0.030	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Calcium	54000	B	52	17	mg/Kg	☼	03/16/16 08:31	03/18/16 21:35	5
Chromium	3.5		0.52	0.090	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Cobalt	2.0		0.26	0.059	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Copper	3.0		0.52	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Iron	4300	B	10	4.0	mg/Kg	☼	03/16/16 08:31	03/18/16 21:30	1
Lead	8.7		0.26	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Magnesium	30000	B	5.2	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:30	1
Manganese	160		0.52	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Nickel	4.3		0.52	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Potassium	330		26	4.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:30	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Sodium	430		52	6.9	mg/Kg	☼	03/16/16 08:31	03/18/16 21:30	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Vanadium	6.2		0.26	0.076	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	1
Zinc	13		1.0	0.33	mg/Kg	☼	03/16/16 08:31	03/18/16 06:28	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		03/19/16 18:45	03/21/16 09:40	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		03/18/16 17:45	03/19/16 15:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.2	ug/Kg	☼	03/17/16 13:00	03/18/16 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			03/12/16 11:32	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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. Babusukumar
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 202
Address: 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 #: 500-108577
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Preservative Key		
Weston Solutions		02056-04000-0030		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 #		Parameter		Parameter		Comments		
1D07040-IL Route 113										
Project Location/State		Lab Project #		Parameter		Parameter				
Braidwood, IL										
Sampler		Lab PM		Parameter		Parameter				
M. Doherty-skabic		D. Wright								
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Parameter	Parameter	Parameter	
			Date	Time						
11		GL77-5(0-1)-030916	3-9-16	1102	2 S	S	VOCS	SVOCs	TOTAL Metals	
12		GL77-6(0-1)-030916		1112					TCP/SPLP Metals	
13		GL77-7(0-1)-030916		1122					PH	
14		F78-1(0-1)-030916		1145						
15		F78-2(0-1)-030916		1155						
16		AL79-1(0-1)-030916		1207						
17		AL79-1(0-1)-030916D		1207						
18		AL79-2(0-1)-030916		1220						
19		AL79-3(0-1)-030916		1237						
20		AL83-1(0-1)-030916	3-9-16	1255	2 S	S	VOCS	SVOCs	TOTAL Metals	

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>[Signature]</u> Company: <u>Weston</u> Date: <u>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</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: 500-108728-1
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

Jodie Bracken

Authorized for release by:
3/29/2016 11:36:30 AM
Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

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

LINKS

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results through
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Visit us at:
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: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116

Lab Sample ID: 500-108728-19

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 23:13	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:13	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/15/16 23:13	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:13	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:13	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:13	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/15/16 23:13	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:13	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/15/16 23:13	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/15/16 23:13	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:13	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 23:13	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:13	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 23:13	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/15/16 23:13	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 23:13	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/15/16 23:13	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:13	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 23:13	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 23:13	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:13	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/15/16 23:13	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:13	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:13	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122		03/15/16 23:13	1
Dibromofluoromethane	116		75 - 120		03/15/16 23:13	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		03/15/16 23:13	1
Toluene-d8 (Surr)	117		75 - 122		03/15/16 23:13	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	☼	03/16/16 16:20	03/28/16 16:39	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116

Lab Sample ID: 500-108728-19

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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	☼	03/16/16 16:20	03/28/16 16:39	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,4-Dinitrophenol	<710	*	710	620	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Methylnaphthalene	6.5	J	35	6.4	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Anthracene	10	J	35	5.9	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Benzo[a]anthracene	43	*	35	4.7	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Benzo[a]pyrene	55	*	35	6.8	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Benzo[b]fluoranthene	87	*	35	7.6	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Benzo[g,h,i]perylene	57	*	35	11	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Benzo[k]fluoranthene	29	J*	35	10	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Bis(2-ethylhexyl) phthalate	70	J*	180	64	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Carbazole	<180		180	88	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Chrysene	58	*	35	9.6	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Fluoranthene	73		35	6.5	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116

Lab Sample ID: 500-108728-19

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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	23	J *	35	9.1	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Isophorone	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Phenol	<180		180	78	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Pyrene	160	*	35	7.0	ug/Kg	☼	03/16/16 16:20	03/28/16 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	113		35 - 137				03/16/16 16:20	03/28/16 16:39	1
2-Fluorobiphenyl	88		25 - 119				03/16/16 16:20	03/28/16 16:39	1
2-Fluorophenol	88		25 - 110				03/16/16 16:20	03/28/16 16:39	1
Nitrobenzene-d5	78		25 - 115				03/16/16 16:20	03/28/16 16:39	1
Phenol-d5	86		31 - 110				03/16/16 16:20	03/28/16 16:39	1
Terphenyl-d14	173	*X	36 - 134				03/16/16 16:20	03/28/16 16:39	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		03/22/16 08:06	03/24/16 05:15	1
Barium	0.17	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 05:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 05:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 05:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 05:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 05:15	1
Manganese	1.6		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 05:15	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:15	1
Zinc	1.4		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 05:15	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		03/22/16 16:36	03/24/16 18:16	1
Barium	0.061	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 18:16	1
Chromium	0.011	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:16	1
Copper	0.010	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:16	1
Iron	11		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 18:16	1
Lead	0.023		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 18:16	1
Manganese	0.19		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 18:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116

Lab Sample ID: 500-108728-19

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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		03/22/16 16:36	03/24/16 18:16	1
Zinc	0.049	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 18:16	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 13:03	03/24/16 06:22	1
Arsenic	2.0		0.53	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Barium	12		0.53	0.097	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Beryllium	0.13	J	0.21	0.046	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Cadmium	0.059	J	0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Calcium	45000		110	34	mg/Kg	☼	03/17/16 13:03	03/24/16 13:16	10
Chromium	2.7		0.53	0.092	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Cobalt	2.1		0.27	0.060	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Copper	3.0		0.53	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Iron	4300	B	11	4.1	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Lead	12		0.27	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Magnesium	24000	B	5.3	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Manganese	180	B	0.53	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Nickel	3.8		0.53	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Potassium	200		27	4.3	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/24/16 16:10	03/25/16 13:09	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/24/16 16:10	03/25/16 13:09	1
Sodium	310		53	7.0	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Vanadium	5.4		0.27	0.078	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1
Zinc	15		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 06:22	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 15:58	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 09:00	03/23/16 16:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/21/16 15:30	03/22/16 21:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.69		0.200	0.200	SU			03/16/16 13:25	1

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116D

Lab Sample ID: 500-108728-20

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 23:38	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:38	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/15/16 23:38	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:38	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:38	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:38	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/15/16 23:38	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 23:38	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/15/16 23:38	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/15/16 23:38	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 23:38	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 23:38	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:38	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 23:38	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/15/16 23:38	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 23:38	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/15/16 23:38	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 23:38	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 23:38	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:38	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 23:38	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 23:38	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 23:38	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/15/16 23:38	1
Dibromofluoromethane	111		75 - 120		03/15/16 23:38	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		03/15/16 23:38	1
Toluene-d8 (Surr)	116		75 - 122		03/15/16 23:38	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	☼	03/16/16 16:20	03/28/16 17:07	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116D

Lab Sample ID: 500-108728-20

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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	☼	03/16/16 16:20	03/28/16 17:07	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,4-Dinitrophenol	<690	*	690	600	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Methylnaphthalene	6.7	J	34	6.3	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4,6-Dinitro-2-methylphenol	<690		690	270	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Acenaphthene	6.5	J	34	6.1	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Acenaphthylene	<34		34	4.5	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Anthracene	24	J	34	5.7	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Benzo[a]anthracene	120	*	34	4.6	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Benzo[a]pyrene	150	*	34	6.6	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Benzo[b]fluoranthene	230	*	34	7.4	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Benzo[g,h,i]perylene	120	*	34	11	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Benzo[k]fluoranthene	89	*	34	10	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Bis(2-ethylhexyl) phthalate	81	J *	170	62	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Carbazole	<170		170	85	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Chrysene	160	*	34	9.3	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Dibenz(a,h)anthracene	20	J *	34	6.6	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Fluoranthene	240		34	6.3	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116D

Lab Sample ID: 500-108728-20

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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	69	*	34	8.9	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Isophorone	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Phenanthrene	150		34	4.8	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Phenol	<170		170	76	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Pyrene	530	*	34	6.8	ug/Kg	☼	03/16/16 16:20	03/28/16 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	135		35 - 137				03/16/16 16:20	03/28/16 17:07	1
2-Fluorobiphenyl	107		25 - 119				03/16/16 16:20	03/28/16 17:07	1
2-Fluorophenol	121	X	25 - 110				03/16/16 16:20	03/28/16 17:07	1
Nitrobenzene-d5	102		25 - 115				03/16/16 16:20	03/28/16 17:07	1
Phenol-d5	117	X	31 - 110				03/16/16 16:20	03/28/16 17:07	1
Terphenyl-d14	239	*X	36 - 134				03/16/16 16:20	03/28/16 17:07	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		03/22/16 08:06	03/24/16 05:20	1
Barium	0.18	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 05:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 05:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 05:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 05:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 05:20	1
Manganese	1.6		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 05:20	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:20	1
Zinc	0.21	J	0.50	0.020	mg/L		03/22/16 08:06	03/24/16 05:20	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		03/22/16 16:36	03/24/16 18:20	1
Barium	0.080	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 18:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 18:20	1
Chromium	0.015	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:20	1
Copper	0.013	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:20	1
Iron	17		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 18:20	1
Lead	0.033		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 18:20	1
Manganese	0.28		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:20	1
Nickel	0.012	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 18:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL79-4(0-1)-031116D

Lab Sample ID: 500-108728-20

Date Collected: 03/11/16 11:15

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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		03/22/16 16:36	03/24/16 18:20	1
Zinc	0.064	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 18:20	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 13:03	03/24/16 06:27	1
Arsenic	1.6		0.54	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Barium	13		0.54	0.098	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Beryllium	0.13	J	0.21	0.046	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Cadmium	0.061	J	0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Calcium	44000		110	35	mg/Kg	☼	03/17/16 13:03	03/24/16 13:20	10
Chromium	2.8		0.54	0.092	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Cobalt	2.1		0.27	0.061	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Copper	2.8		0.54	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Iron	4200	B	11	4.1	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Lead	12		0.27	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Magnesium	22000	B	5.4	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Manganese	190	B	0.54	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Nickel	3.7		0.54	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Potassium	210		27	4.4	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/24/16 16:10	03/25/16 13:14	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/24/16 16:10	03/25/16 13:14	1
Sodium	280		54	7.1	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Vanadium	5.5		0.27	0.078	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	1
Zinc	14		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 06:27	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:21	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 21:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.81		0.200	0.200	SU			03/16/16 13:28	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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) _____ Bill To (optional) _____
 Contact: S. Radwan Kumar Contact: _____
 Company: Waston Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108728
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SPLP Metals		Other		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		Project Location/State		Lab Project #		Sampler								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix								
		Sampling										Comments		
Waston														3.5
IDOT-040		Braidwood & Custer Park / IL		D. Wright		T. Walls		VOCs		SVOCs		Total Metals		
11		F108-1(0-1)-031116	3-11-16	0930	2	S	X	X	X	X	X			
12		AL110-1(0-1)-031116		0940										
13		AL110-2(0-1)-031116		0950										
14		R09-7(0-1)-031116		1035										
15		VL84-1(0-2)-031116		1045										
16		VL84-2(0-1)-031116		1055										
17		VL84-3(0-1)-031116		1105										
18		VL84-4(0-1)-031116		1110										
19		AL79-4(0-1)-031116		1115										
20		AL79-4(0-1)-031116	3-11-16	1115	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>J. Walls</u>	Company: <u>Waston</u>	Date: <u>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-ATI</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>16:20</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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):
20200-20300 blocks of W. IL 113, (ISGS Site No. 2948-81)

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: 41.233362569 Longitude: -88.097255911
(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: 41.233362569 Longitude: -88.097255911

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 WL81-1 AND WL81-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-81. SEE FIGURE 3-12 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: 500-108729-1.
ALSO SEE FIGURE 4-12 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.

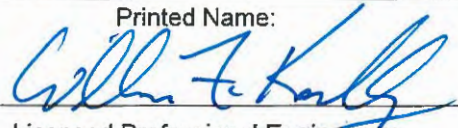
Street Address: 300 Circle Plaza; Suite 202

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. 2948-81
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	WL81-1(0-1)-031116	WL81-2(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	
Location ID	WL81-1	WL81-2	
Depth	0 - 1	0 - 1	
Location Code	2948-81	2948-81	
Parameter			
Laboratory pH	7.57	8.93	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	13 J	56	900 / 1100 / 1800
Benzo(a)pyrene	ND	85 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	140 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	12 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	39 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	1.5 J	1.6 J	11.3 / 13
Barium, Total	14	19	1500
Beryllium, Total	0.15 J	0.36	22
Cadmium, Total	0.048 J	0.16	5.2
Calcium, Total	15000 J	100000 J	---
Chromium, Total	3.6	4.8	21
Iron, Total	4100 J	6300 J	15000 / 15900
Lead, Total	5.3	79	107
Manganese, Total	170 J-	210 J-	630 / 636
Mercury, Total	ND	0.016	0.89
Nickel, Total	4.8 J	5.6 J	100
Potassium, Total	310	630	---
Selenium, Total	0.28 J	0.27 J	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	16	33	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.15 J	0.24 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	0.002 J	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.2	2.2	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	0.013 J	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	0.37 J	0.61	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.12 J	0.12 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.023 J	0.03	0.1
Iron, SPLP	20 J+	23 J+	5
Lead, SPLP	0.036	0.15	0.0075
Manganese, SPLP	0.51	0.34	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.02 J	0.021 J	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	1.5	0.21 J	5

Summary Table of ISGS Site No. 2948-81
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.

^A - 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: 500-108729-1
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:
3/25/2016 4:31:05 PM

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

LINKS

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results through
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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: 500-108729-1

Client Sample ID: WL81-1(0-1)-031116

Lab Sample ID: 500-108729-1

Date Collected: 03/11/16 11:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/15/16 16:29	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 16:29	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 16:29	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 16:29	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 16:29	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 16:29	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 16:29	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/15/16 16:29	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/15/16 16:29	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 16:29	1
1,2-Dichloropropane	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 16:29	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 16:29	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 16:29	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 16:29	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/15/16 16:29	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 16:29	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/15/16 16:29	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 16:29	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 16:29	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 16:29	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 16:29	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 16:29	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 16:29	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 16:29	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122		03/15/16 16:29	1
Dibromofluoromethane	107		75 - 120		03/15/16 16:29	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/15/16 16:29	1
Toluene-d8 (Surr)	108		75 - 122		03/15/16 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	<170	F2	170	37	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
1,2-Dichlorobenzene	<170	F1 F2	170	41	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
1,3-Dichlorobenzene	<170	F1 F2	170	39	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
1,4-Dichlorobenzene	<170	F1 F2	170	44	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,2'-oxybis[1-chloropropane]	<170	F2	170	40	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-1(0-1)-031116

Lab Sample ID: 500-108729-1

Date Collected: 03/11/16 11:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,4-Dinitrophenol	<700	F1 *	700	610	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Chlorophenol	<170	F2	170	59	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Methylphenol	<170	F2	170	56	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
2-Nitrophenol	<340	F1 F2	340	82	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4,6-Dinitro-2-methylphenol	<700	F1	700	280	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Chloroaniline	<700	F2	700	160	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Nitroaniline	<340		340	150	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Acenaphthylene	<34		34	4.6	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Anthracene	<34		34	5.8	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Benzo[a]anthracene	13 J		34	4.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Benzo[a]pyrene	<34	*	34	6.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Benzo[b]fluoranthene	<34	*	34	7.5	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Benzo[g,h,i]perylene	<34	*	34	11	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Benzo[k]fluoranthene	<34	*	34	10	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Bis(2-chloroethoxy)methane	<170	F2	170	35	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Bis(2-chloroethyl)ether	<170	F2	170	52	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Bis(2-ethylhexyl) phthalate	<170	F1	170	63	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Butyl benzyl phthalate	<170	F1	170	66	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Carbazole	<170		170	87	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Chrysene	14 J		34	9.5	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Di-n-octyl phthalate	<170	F1	170	57	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Fluoranthene	24 J		34	6.4	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Fluorene	<34		34	4.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Hexachlorobutadiene	<170	F2	170	54	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Hexachlorocyclopentadiene	<700	F1	700	200	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Hexachloroethane	<170	F1 F2	170	53	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-1(0-1)-031116

Lab Sample ID: 500-108729-1

Date Collected: 03/11/16 11:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.3

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	☼	03/16/16 17:37	03/23/16 20:43	1
Isophorone	<170		170	39	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Naphthalene	<34	F2	34	5.3	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Nitrobenzene	<34	F2	34	8.7	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
N-Nitrosodi-n-propylamine	<70	F2	70	42	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
N-Nitrosodiphenylamine	<170	F1	170	41	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Pentachlorophenol	<700	F1	700	560	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Phenanthrene	39		34	4.8	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Phenol	<170		170	77	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1
Pyrene	29	J F1	34	6.9	ug/Kg	☼	03/16/16 17:37	03/23/16 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137	03/16/16 17:37	03/23/16 20:43	1
2-Fluorobiphenyl	82		25 - 119	03/16/16 17:37	03/23/16 20:43	1
2-Fluorophenol	81		25 - 110	03/16/16 17:37	03/23/16 20:43	1
Nitrobenzene-d5	80		25 - 115	03/16/16 17:37	03/23/16 20:43	1
Phenol-d5	80		31 - 110	03/16/16 17:37	03/23/16 20:43	1
Terphenyl-d14	104		36 - 134	03/16/16 17:37	03/23/16 20:43	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		03/22/16 08:08	03/24/16 17:57	1
Barium	0.15	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 17:57	1
Manganese	1.2		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 17:57	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 17:57	1
Zinc	0.37	J	0.50	0.020	mg/L		03/22/16 08:08	03/24/16 17:57	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 08:19	03/24/16 18:47	1
Barium	0.12	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 18:47	1
Chromium	0.023	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:47	1
Copper	0.024	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:47	1
Iron	20		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 18:47	1
Lead	0.036		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 18:47	1
Manganese	0.51		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:47	1
Nickel	0.020	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 18:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-1(0-1)-031116

Lab Sample ID: 500-108729-1

Date Collected: 03/11/16 11:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 90.3

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 08:19	03/24/16 18:47	1
Zinc	1.5		0.50	0.020	mg/L		03/23/16 08:19	03/24/16 18:47	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	☼	03/17/16 15:42	03/23/16 22:44	1
Arsenic	1.5		0.53	0.24	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Barium	14		0.53	0.097	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Beryllium	0.15	J	0.21	0.046	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Cadmium	0.048	J	0.11	0.031	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Calcium	15000		110	34	mg/Kg	☼	03/17/16 15:42	03/24/16 13:24	10
Chromium	3.6		0.53	0.091	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Cobalt	1.9		0.26	0.060	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Copper	3.0	B	0.53	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Iron	4100	B	11	4.1	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Lead	5.3		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Magnesium	7400		5.3	2.1	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Manganese	170		0.53	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Nickel	4.8		0.53	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Potassium	310		26	4.3	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Selenium	0.28	J	0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Sodium	390	B	53	7.0	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Vanadium	6.9		0.26	0.077	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	1
Zinc	16		1.1	0.34	mg/Kg	☼	03/17/16 15:42	03/23/16 22:44	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		03/21/16 18:30	03/22/16 16:12	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 09:00	03/23/16 16:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.4	ug/Kg	☼	03/21/16 15:30	03/22/16 21:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.57		0.200	0.200	SU			03/16/16 13:31	1

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-2(0-1)-031116

Lab Sample ID: 500-108729-2

Date Collected: 03/11/16 11:40

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 93.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/15/16 16:55	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 16:55	1
Bromodichloromethane	<5.4		5.4	0.90	ug/Kg	☼		03/15/16 16:55	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 16:55	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 16:55	1
Carbon tetrachloride	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
Chloroethane	<5.4		5.4	2.2	ug/Kg	☼		03/15/16 16:55	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/15/16 16:55	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 16:55	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/15/16 16:55	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	☼		03/15/16 16:55	1
1,1-Dichloroethene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 16:55	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 16:55	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 16:55	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 16:55	1
Methylene Chloride	<5.4		5.4	4.0	ug/Kg	☼		03/15/16 16:55	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 16:55	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/15/16 16:55	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 16:55	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 16:55	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 16:55	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 16:55	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/15/16 16:55	1
Trichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 16:55	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 16:55	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 16:55	1
Dibromofluoromethane	107		75 - 120		03/15/16 16:55	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 16:55	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 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	<180		180	38	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-2(0-1)-031116

Lab Sample ID: 500-108729-2

Date Collected: 03/11/16 11:40

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,4-Dinitrophenol	<710	*	710	620	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Methylnaphthalene	17	J	35	6.4	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Acenaphthylene	13	J	35	4.6	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Anthracene	7.4	J	35	5.8	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Benzo[a]anthracene	56		35	4.7	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Benzo[a]pyrene	85	*	35	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Benzo[b]fluoranthene	140	*	35	7.5	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Benzo[g,h,i]perylene	46	*	35	11	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Benzo[k]fluoranthene	60	*	35	10	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Bis(2-ethylhexyl) phthalate	77	J	180	64	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Carbazole	<180		180	87	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Chrysene	78		35	9.5	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Dibenz(a,h)anthracene	12	J *	35	6.8	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Fluoranthene	110		35	6.5	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-2(0-1)-031116

Lab Sample ID: 500-108729-2

Date Collected: 03/11/16 11:40

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	39	*	35	9.1	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Isophorone	<180		180	39	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Naphthalene	6.5	J	35	5.4	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Phenanthrene	57		35	4.9	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Phenol	<180		180	78	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Pyrene	140		35	6.9	ug/Kg	☼	03/16/16 17:37	03/24/16 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/16/16 17:37	03/24/16 20:27	1
2-Fluorobiphenyl	87		25 - 119				03/16/16 17:37	03/24/16 20:27	1
2-Fluorophenol	97		25 - 110				03/16/16 17:37	03/24/16 20:27	1
Nitrobenzene-d5	84		25 - 115				03/16/16 17:37	03/24/16 20:27	1
Phenol-d5	88		31 - 110				03/16/16 17:37	03/24/16 20:27	1
Terphenyl-d14	123		36 - 134				03/16/16 17:37	03/24/16 20:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:08	03/24/16 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:08	03/24/16 18:02	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/22/16 08:08	03/24/16 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:08	03/24/16 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:08	03/24/16 18:02	1
Manganese	2.2		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Nickel	0.013	J	0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:08	03/24/16 18:02	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:08	03/24/16 18:02	1
Zinc	0.61		0.50	0.020	mg/L		03/22/16 08:08	03/24/16 18:02	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		03/23/16 08:19	03/24/16 18:51	1
Barium	0.12	J	0.50	0.050	mg/L		03/23/16 08:19	03/24/16 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 08:19	03/24/16 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 08:19	03/24/16 18:51	1
Chromium	0.030		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:51	1
Copper	0.026		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:51	1
Iron	23		0.40	0.20	mg/L		03/23/16 08:19	03/24/16 18:51	1
Lead	0.15		0.0075	0.0075	mg/L		03/23/16 08:19	03/24/16 18:51	1
Manganese	0.34		0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:51	1
Nickel	0.021	J	0.025	0.010	mg/L		03/23/16 08:19	03/24/16 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 08:19	03/24/16 18:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108729-1

Client Sample ID: WL81-2(0-1)-031116

Lab Sample ID: 500-108729-2

Date Collected: 03/11/16 11:40

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 93.4

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 08:19	03/24/16 18:51	1
Zinc	0.21	J	0.50	0.020	mg/L		03/23/16 08:19	03/24/16 18:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.0	0.21	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Arsenic	1.6		0.51	0.24	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Barium	19		0.51	0.093	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Beryllium	0.36		0.20	0.044	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Cadmium	0.16		0.10	0.030	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Calcium	100000		100	33	mg/Kg	☼	03/17/16 15:42	03/24/16 13:53	10
Chromium	4.8		0.51	0.088	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Cobalt	2.4		0.26	0.058	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Copper	6.0	B	0.51	0.11	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Iron	6300	B	10	3.9	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Lead	79		0.26	0.13	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Magnesium	47000		5.1	2.1	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Manganese	210		0.51	0.10	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Nickel	5.6		0.51	0.14	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Potassium	630		26	4.2	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Selenium	0.27	J	0.51	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Sodium	940	B	51	6.7	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Vanadium	7.0		0.26	0.075	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1
Zinc	33		1.0	0.32	mg/Kg	☼	03/17/16 15:42	03/23/16 23:14	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 16:14	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		03/23/16 09:00	03/23/16 16:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16		16	8.2	ug/Kg	☼	03/21/16 15:30	03/22/16 22:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.93		0.200	0.200	SU			03/16/16 13:33	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108729-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD 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
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.
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: 500-108729-1

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. Babusankumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108729

Chain of Custody Number: _____

Page 3 of 4

Temperature °C of Cooler: 4.7

Client		Client Project #		Preservative		Parameter													
<u>Weston</u>																			
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SLP Metals	AH	Preservative Key		Comments				
<u>IDOT-040</u>				Date	Time								1. HCL, Cool to 4°	2. HCL, Cool to 4°	500-108729 COC				
Project Location/State		Lab PM																	
<u>Braidwood & Cedar Park AZ</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/SLP Metals	AH								
1		WL8-1(0-1)-031116	3-11-16	1130	2	S	X	X	X	X	X								
2		WL8-2(0-1)-031116	↓	1140	↓	↓	↓	↓	↓	↓	↓								
3		WL76-1(0-1)-031116		1145															
4		WL76-2(0-1)-031116		1155															
5		WL76-3(0-1)-031116		1210															
6		WL76-4(0-1)-031116		1250															
7		WL76-5(0-1)-031116		1300															
8		WL76-6(0-1)-031116		1305															
9		WL76-7(0-1)-031116		1315															
10		WL76-7(0-1)-031116D		3-11-16								1315	2	S	X	X	X	X	X

Turnaround Time Required (Business Days) _____
 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>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-LMT</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>1620</u>	Received By: <u>[Signature]</u>	Company: <u>TA/HL</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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):

18500 block of W. IL 113, (ISGS Site No. 2948-83)

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: 41.233071884 Longitude: -88.094073533

(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: 41.233071884 Longitude: -88.094073533

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 AL83-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-83. SEE FIGURE 3-12 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: 500-108577-1.
ALSO SEE FIGURES 4-12 AND 4-13 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.

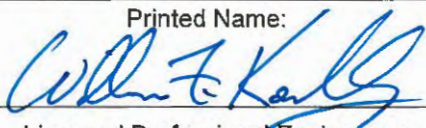
Street Address: 300 Circle Plaza; Suite 202

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. 2948-83
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	AL83-1(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	
Location ID	AL83-1	
Depth	0 - 1	
Location Code	2948-83	
Parameter		
Laboratory pH	7.89	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	56 J	900 / 1100 / 1800
Benzo(a)pyrene	71 J	90 / 1300 / 2100
Benzo(b)fluoranthene	100 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	41 J	900 / 900 / 1600
Total Metals (mg/kg)		
Arsenic, Total	1.7	11.3 / 13
Barium, Total	8.9	1500
Beryllium, Total	0.12 J	22
Cadmium, Total	0.059 J	5.2
Calcium, Total	26000 J	---
Chromium, Total	2.9	21
Iron, Total	4400 J+	15000 / 15900
Lead, Total	13 J	107
Manganese, Total	130 J+	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.4	100
Potassium, Total	290 J+	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	14	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.12 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	1.4	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
SPLP Metals (mg/l)		
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	4.7	5
Lead, SPLP	0.018 J	0.0075
Manganese, SPLP	0.13	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.42 J	5

Summary Table of ISGS Site No. 2948-83
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.

^A - 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: 500-108577-1
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:
3/21/2016 2:52:20 PM

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

LINKS

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results through
TotalAccess

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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: 500-108577-1

Client Sample ID: AL83-1(0-1)-030916

Lab Sample ID: 500-108577-20

Date Collected: 03/09/16 12:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.0	ug/Kg	☼		03/12/16 19:36	1
Benzene	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
Bromodichloromethane	<5.2		5.2	0.88	ug/Kg	☼		03/12/16 19:36	1
Bromoform	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
Bromomethane	<5.2		5.2	1.9	ug/Kg	☼		03/12/16 19:36	1
Carbon disulfide	<5.2		5.2	1.9	ug/Kg	☼		03/12/16 19:36	1
Carbon tetrachloride	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
Chlorobenzene	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
Chloroethane	<5.2		5.2	2.2	ug/Kg	☼		03/12/16 19:36	1
Chloroform	<5.2		5.2	1.0	ug/Kg	☼		03/12/16 19:36	1
Chloromethane	<5.2		5.2	1.3	ug/Kg	☼		03/12/16 19:36	1
cis-1,2-Dichloroethene	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
cis-1,3-Dichloropropene	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
Dibromochloromethane	<5.2		5.2	0.60	ug/Kg	☼		03/12/16 19:36	1
1,1-Dichloroethane	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
1,2-Dichloroethane	<5.2		5.2	0.78	ug/Kg	☼		03/12/16 19:36	1
1,1-Dichloroethene	<5.2		5.2	1.9	ug/Kg	☼		03/12/16 19:36	1
1,2-Dichloropropane	<5.2		5.2	1.4	ug/Kg	☼		03/12/16 19:36	1
1,3-Dichloropropene, Total	<5.2		5.2	1.5	ug/Kg	☼		03/12/16 19:36	1
Ethylbenzene	<5.2		5.2	1.3	ug/Kg	☼		03/12/16 19:36	1
2-Hexanone	<5.2		5.2	1.6	ug/Kg	☼		03/12/16 19:36	1
Methylene Chloride	<5.2		5.2	4.0	ug/Kg	☼		03/12/16 19:36	1
Methyl Ethyl Ketone	<5.2		5.2	1.9	ug/Kg	☼		03/12/16 19:36	1
methyl isobutyl ketone	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
Methyl tert-butyl ether	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
Styrene	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
1,1,1,2-Tetrachloroethane	<5.2		5.2	0.83	ug/Kg	☼		03/12/16 19:36	1
Tetrachloroethene	<5.2		5.2	1.1	ug/Kg	☼		03/12/16 19:36	1
Toluene	<5.2		5.2	1.8	ug/Kg	☼		03/12/16 19:36	1
trans-1,2-Dichloroethene	<5.2		5.2	1.3	ug/Kg	☼		03/12/16 19:36	1
trans-1,3-Dichloropropene	<5.2		5.2	1.5	ug/Kg	☼		03/12/16 19:36	1
1,1,1-Trichloroethane	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
1,1,2-Trichloroethane	<5.2		5.2	1.0	ug/Kg	☼		03/12/16 19:36	1
Trichloroethene	<5.2		5.2	1.4	ug/Kg	☼		03/12/16 19:36	1
Vinyl chloride	<5.2		5.2	1.2	ug/Kg	☼		03/12/16 19:36	1
Xylenes, Total	<10		10	1.9	ug/Kg	☼		03/12/16 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/12/16 19:36	1
Dibromofluoromethane	107		75 - 120		03/12/16 19:36	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/12/16 19:36	1
Toluene-d8 (Surr)	118		75 - 122		03/12/16 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
1,3-Dichlorobenzene	<170		170	37	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL83-1(0-1)-030916

Lab Sample ID: 500-108577-20

Date Collected: 03/09/16 12:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	76	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,4,6-Trichlorophenol	<330		330	110	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,4-Dichlorophenol	<330		330	79	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,4-Dinitrophenol	<670		670	590	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2,6-Dinitrotoluene	<170		170	65	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Methylnaphthalene	<33		33	6.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Methylphenol	<170		170	53	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
3 & 4 Methylphenol	<170		170	55	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
3,3'-Dichlorobenzidine	<170 *		170	47	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4,6-Dinitro-2-methylphenol	<670		670	270	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Chloroaniline	<670		670	160	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
4-Nitrophenol	<670		670	320	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Acenaphthylene	6.7 J		33	4.4	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Anthracene	8.1 J		33	5.6	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Benzo[a]anthracene	56 *		33	4.5	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Benzo[a]pyrene	71 *		33	6.4	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Benzo[b]fluoranthene	100 *		33	7.2	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Benzo[g,h,i]perylene	66 *		33	11	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Benzo[k]fluoranthene	53 *		33	9.8	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Bis(2-ethylhexyl) phthalate	<170 *		170	61	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Butyl benzyl phthalate	<170 *		170	63	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Carbazole	<170		170	83	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Chrysene	74 *		33	9.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Dibenz(a,h)anthracene	<33 *		33	6.4	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Dibenzofuran	<170		170	39	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Diethyl phthalate	<170		170	56	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Dimethyl phthalate	<170		170	43	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Di-n-octyl phthalate	<170		170	54	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Fluoranthene	64		33	6.2	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Fluorene	<33		33	4.7	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Hexachlorobenzene	<67		67	7.7	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Hexachlorobutadiene	<170		170	52	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Hexachlorocyclopentadiene	<670		670	190	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Hexachloroethane	<170		170	51	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL83-1(0-1)-030916

Lab Sample ID: 500-108577-20

Date Collected: 03/09/16 12:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.6

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	41	*	33	8.6	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Isophorone	<170		170	37	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Naphthalene	<33		33	5.1	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Nitrobenzene	<33		33	8.3	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
N-Nitrosodi-n-propylamine	<67		67	41	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
N-Nitrosodiphenylamine	<170		170	39	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Pentachlorophenol	<670		670	530	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Phenanthrene	44		33	4.6	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Phenol	<170		170	74	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Pyrene	280	*	33	6.6	ug/Kg	☼	03/20/16 10:00	03/20/16 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137				03/20/16 10:00	03/20/16 18:54	1
2-Fluorobiphenyl	69		25 - 119				03/20/16 10:00	03/20/16 18:54	1
2-Fluorophenol	79		25 - 110				03/20/16 10:00	03/20/16 18:54	1
Nitrobenzene-d5	61		25 - 115				03/20/16 10:00	03/20/16 18:54	1
Phenol-d5	74		31 - 110				03/20/16 10:00	03/20/16 18:54	1
Terphenyl-d14	177	X*	36 - 134				03/20/16 10:00	03/20/16 18:54	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		03/19/16 12:25	03/20/16 01:10	1
Barium	0.12	J	0.50	0.050	mg/L		03/19/16 12:25	03/20/16 01:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:25	03/20/16 01:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:25	03/20/16 01:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:25	03/20/16 01:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:25	03/20/16 01:10	1
Manganese	1.4		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:25	03/20/16 01:10	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:25	03/20/16 01:10	1
Zinc	0.73		0.50	0.020	mg/L		03/19/16 12:25	03/20/16 01:10	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		03/18/16 15:11	03/19/16 19:12	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:11	03/19/16 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:11	03/19/16 19:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:11	03/19/16 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:12	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:12	1
Iron	4.7		0.40	0.20	mg/L		03/18/16 15:11	03/19/16 19:12	1
Lead	0.018		0.0075	0.0075	mg/L		03/18/16 15:11	03/19/16 19:12	1
Manganese	0.13		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:11	03/19/16 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:11	03/19/16 19:12	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108577-1

Client Sample ID: AL83-1(0-1)-030916

Lab Sample ID: 500-108577-20

Date Collected: 03/09/16 12:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 95.6

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		03/18/16 15:11	03/19/16 19:12	1
Zinc	0.42	J	0.50	0.020	mg/L		03/18/16 15:11	03/19/16 19:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Arsenic	1.7		0.51	0.23	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Barium	8.9		0.51	0.093	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Beryllium	0.12	J	0.20	0.044	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Cadmium	0.059	J	0.10	0.029	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Calcium	26000	B	10	3.3	mg/Kg	☼	03/16/16 08:31	03/18/16 21:46	1
Chromium	2.9		0.51	0.087	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Cobalt	1.7		0.25	0.057	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Copper	2.8		0.51	0.11	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Iron	4400	B	10	3.9	mg/Kg	☼	03/16/16 08:31	03/18/16 21:46	1
Lead	13		0.25	0.13	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Magnesium	15000	B	5.1	2.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:46	1
Manganese	130		0.51	0.10	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Nickel	4.4		0.51	0.14	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Potassium	290		25	4.1	mg/Kg	☼	03/16/16 08:31	03/18/16 21:46	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Sodium	250		51	6.7	mg/Kg	☼	03/16/16 08:31	03/18/16 21:46	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Vanadium	5.9		0.25	0.074	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	1
Zinc	14		1.0	0.32	mg/Kg	☼	03/16/16 08:31	03/18/16 06:33	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		03/19/16 18:45	03/21/16 09:42	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		03/18/16 17:45	03/19/16 15:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.7	ug/Kg	☼	03/17/16 13:00	03/18/16 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			03/12/16 11:37	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108577-1

Qualifiers

GC/MS Semi VOA

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

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: 500-108577-1

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. Babusukumar
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 202
Address: 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 #: 500-108577
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Preservative Key				
Weston Solutions		02056-04000-0030		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 #		Parameter		Parameter		Comments				
1D07040-IL Route 113												
Project Location/State		Lab PM		Parameter		Parameter						
Braidwood, IL		D. Wright		VOCS		SVOCs						
Sampler		Lab PM		Parameter		Parameter						
M. Doherty-Skabi		D. Wright		TOTAL Metals		TCUP/SPLP Metals						
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	TOTAL Metals	TCUP/SPLP Metals	PH	Comments
			Date	Time								
11		GL77-5(0-1)-030916	3-9-16	1102	2 S	S	X	X	X	X	X	
12		GL77-6(0-1)-030916		1112								
13		GL77-7(0-1)-030916		1122								
14		F78-1(0-1)-030916		1145								
15		F78-2(0-1)-030916		1155								
16		AL79-1(0-1)-030916		1207								
17		AL79-1(0-1)-030916D		1207								
18		AL79-2(0-1)-030916		1220								
19		AL79-3(0-1)-030916		1237								
20		AL83-1(0-1)-030916	3-9-16	1255	2 S	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>[Signature]</u> Company: <u>Weston</u> Date: <u>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</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):
19500 block of W. IL 113, (ISGS Site No. 2948-84)

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: 41.233101783 Longitude: -88.092893177
(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: 41.233101783 Longitude: -88.092893177

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 VL84-3 AND VL84-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-84. SEE FIGURES 3-12/3-13 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: 500-108728-1.
ALSO SEE FIGURES 4-12 AND 4-13 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. 2948-84
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	VL84-3(0-1)-031116	VL84-4(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	
Location ID	VL84-3	VL84-4	
Depth	0 - 1	0 - 1	
Location Code	2948-84	2948-84	
Parameter			
Laboratory pH	7.86	8.28	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	7.7 J	110 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	130 J	90 / 1300 / 2100
Benzo(b)fluoranthene	16 J	210 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	ND	63 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	2 J	3.2 J	11.3 / 13
Barium, Total	22	26	1500
Beryllium, Total	0.14 J	0.21 J	22
Cadmium, Total	ND	0.047 J	5.2
Calcium, Total	2200 J	5700 J	---
Chromium, Total	3.2	4.7	21
Iron, Total	5400 J	8300 J	15000 / 15900
Lead, Total	4.2 J+	10 J+	107
Manganese, Total	200 J-	310 J-	630 / 636
Mercury, Total	ND	ND	0.89
Nickel, Total	3.7 J	6 J	100
Potassium, Total	170	220	---
Selenium, Total	0.44 J	0.27 J	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	11	20	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.23 J	0.24 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	0.3	0.63	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	0.28 J	1.1	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.021 J	0.05
Barium, SPLP	0.2 J	0.32 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.035	0.065	0.1
Iron, SPLP	46 J-	84 J-	5
Lead, SPLP	0.036	0.087	0.0075
Manganese, SPLP	0.81	1.2	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.031	0.059	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.12 J	0.27 J	5

Summary Table of ISGS Site No. 2948-84
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.

^A - 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: 500-108728-1

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

Jodie Bracken

Authorized for release by:

3/29/2016 11:36:30 AM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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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: 500-108728-1

Client Sample ID: VL84-3(0-1)-031116

Lab Sample ID: 500-108728-17

Date Collected: 03/11/16 11:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 22:24	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 22:24	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/15/16 22:24	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 22:24	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 22:24	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 22:24	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/15/16 22:24	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 22:24	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/15/16 22:24	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/15/16 22:24	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 22:24	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 22:24	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 22:24	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 22:24	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/15/16 22:24	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 22:24	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/15/16 22:24	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 22:24	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 22:24	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 22:24	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 22:24	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/15/16 22:24	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 22:24	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 22:24	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/15/16 22:24	1
Dibromofluoromethane	110		75 - 120		03/15/16 22:24	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/15/16 22:24	1
Toluene-d8 (Surr)	117		75 - 122		03/15/16 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-3(0-1)-031116

Lab Sample ID: 500-108728-17

Date Collected: 03/11/16 11:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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	☼	03/16/16 16:20	03/23/16 15:03	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Acenaphthylene	<34		34	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Anthracene	<34		34	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Benzo[a]anthracene	7.7	J	34	4.7	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Benzo[a]pyrene	<34	*	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Benzo[b]fluoranthene	16	J	34	7.5	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Benzo[g,h,i]perylene	<34	*	34	11	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Benzo[k]fluoranthene	<34	*	34	10	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Carbazole	<170		170	87	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Chrysene	<34		34	9.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Fluoranthene	14	J	34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Fluorene	<34		34	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-3(0-1)-031116

Lab Sample ID: 500-108728-17

Date Collected: 03/11/16 11:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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	<34	*	34	9.0	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Isophorone	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Phenanthrene	14	J	34	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Phenol	<170		170	77	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1
Pyrene	18	J	34	6.9	ug/Kg	☼	03/16/16 16:20	03/23/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		35 - 137	03/16/16 16:20	03/23/16 15:03	1
2-Fluorobiphenyl	89		25 - 119	03/16/16 16:20	03/23/16 15:03	1
2-Fluorophenol	90		25 - 110	03/16/16 16:20	03/23/16 15:03	1
Nitrobenzene-d5	88		25 - 115	03/16/16 16:20	03/23/16 15:03	1
Phenol-d5	91		31 - 110	03/16/16 16:20	03/23/16 15:03	1
Terphenyl-d14	131		36 - 134	03/16/16 16:20	03/23/16 15:03	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 08:06	03/24/16 05:04	1
Barium	0.23	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 05:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 05:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 05:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 05:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 05:04	1
Manganese	0.30		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 05:04	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:04	1
Zinc	0.28	J	0.50	0.020	mg/L		03/22/16 08:06	03/24/16 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Barium	0.20	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 18:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 18:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 18:00	1
Chromium	0.035		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Copper	0.023	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Iron	46		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 18:00	1
Lead	0.036		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 18:00	1
Manganese	0.81		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Nickel	0.031		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 18:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-3(0-1)-031116

Lab Sample ID: 500-108728-17

Date Collected: 03/11/16 11:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.5

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		03/22/16 16:36	03/24/16 18:00	1
Zinc	0.12	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 18:00	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 13:03	03/24/16 06:14	1
Arsenic	2.0		0.54	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Barium	22		0.54	0.098	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Beryllium	0.14	J	0.21	0.046	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Calcium	2200	B	11	3.4	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Chromium	3.2		0.54	0.092	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Cobalt	2.0		0.27	0.060	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Copper	2.6		0.54	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Iron	5400	B	11	4.1	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Lead	4.2		0.27	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Magnesium	1400	B	5.4	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Manganese	200	B	0.54	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Nickel	3.7		0.54	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Potassium	170		27	4.4	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Selenium	0.44	J	0.50	0.25	mg/Kg	☼	03/24/16 16:10	03/25/16 12:52	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/24/16 16:10	03/25/16 12:52	1
Sodium	94		54	7.1	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Vanadium	6.3		0.27	0.078	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	1
Zinc	11		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 06:14	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/21/16 15:30	03/22/16 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			03/16/16 13:20	1

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-4(0-1)-031116

Lab Sample ID: 500-108728-18

Date Collected: 03/11/16 11:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 22:48	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 22:48	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/15/16 22:48	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 22:48	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 22:48	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 22:48	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 22:48	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 22:48	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 22:48	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/15/16 22:48	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 22:48	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 22:48	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 22:48	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 22:48	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 22:48	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/15/16 22:48	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 22:48	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/15/16 22:48	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 22:48	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 22:48	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 22:48	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 22:48	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 22:48	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 22:48	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 22:48	1
Dibromofluoromethane	109		75 - 120		03/15/16 22:48	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		03/15/16 22:48	1
Toluene-d8 (Surr)	117		75 - 122		03/15/16 22:48	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	☼	03/16/16 16:20	03/23/16 18:56	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-4(0-1)-031116

Lab Sample ID: 500-108728-18

Date Collected: 03/11/16 11:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼	03/16/16 16:20	03/23/16 18:56	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Methylnaphthalene	23	J	35	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Acenaphthylene	8.8	J	35	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Anthracene	16	J	35	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Benzo[a]anthracene	110	*	35	4.7	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Benzo[a]pyrene	130	*	35	6.8	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Benzo[b]fluoranthene	210	*	35	7.5	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Benzo[g,h,i]perylene	64	*	35	11	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Benzo[k]fluoranthene	88	*	35	10	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Bis(2-ethylhexyl) phthalate	<180	*	180	64	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Butyl benzyl phthalate	<180	*	180	66	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Carbazole	<180		180	87	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Chrysene	130	*	35	9.5	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Dibenz(a,h)anthracene	22	J *	35	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Fluoranthene	150		35	6.5	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-4(0-1)-031116

Lab Sample ID: 500-108728-18

Date Collected: 03/11/16 11:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	63	*	35	9.0	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Isophorone	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Naphthalene	9.4	J	35	5.4	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Phenanthrene	73		35	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Phenol	<180		180	78	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Pyrene	310	*	35	6.9	ug/Kg	☼	03/16/16 16:20	03/23/16 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		35 - 137				03/16/16 16:20	03/23/16 18:56	1
2-Fluorobiphenyl	95		25 - 119				03/16/16 16:20	03/23/16 18:56	1
2-Fluorophenol	95		25 - 110				03/16/16 16:20	03/23/16 18:56	1
Nitrobenzene-d5	92		25 - 115				03/16/16 16:20	03/23/16 18:56	1
Phenol-d5	97		31 - 110				03/16/16 16:20	03/23/16 18:56	1
Terphenyl-d14	198	X*	36 - 134				03/16/16 16:20	03/23/16 18:56	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		03/22/16 08:06	03/24/16 05:10	1
Barium	0.24	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 05:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 05:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 05:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 05:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 05:10	1
Manganese	0.63		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 05:10	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 05:10	1
Zinc	1.1		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Barium	0.32	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 18:04	1
Chromium	0.065		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Cobalt	0.018	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Copper	0.046		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Iron	84		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 18:04	1
Lead	0.087		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 18:04	1
Manganese	1.2		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Nickel	0.059		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 18:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 18:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: VL84-4(0-1)-031116

Lab Sample ID: 500-108728-18

Date Collected: 03/11/16 11:10

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/22/16 16:36	03/24/16 18:04	1
Zinc	0.27	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 18:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Arsenic	3.2		0.54	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Barium	26		0.54	0.099	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Beryllium	0.21	J	0.22	0.047	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Cadmium	0.047	J	0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Calcium	5700	B	11	3.5	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Chromium	4.7		0.54	0.094	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Cobalt	3.0		0.27	0.061	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Copper	4.3		0.54	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Iron	8300	B	11	4.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Lead	10		0.27	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Magnesium	3600	B	5.4	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Manganese	310	B	0.54	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Nickel	6.0		0.54	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Potassium	220		27	4.4	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Selenium	0.27	J	0.51	0.25	mg/Kg	☼	03/24/16 16:10	03/25/16 12:56	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/24/16 16:10	03/25/16 12:56	1
Sodium	640		54	7.2	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Vanadium	8.7		0.27	0.079	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	1
Zinc	20		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 06:18	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/24/16 09:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.6	ug/Kg	☼	03/21/16 15:30	03/22/16 21:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			03/16/16 13:23	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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. Babasaikumar
Company: Waston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108728
Chain of Custody Number: _____
Page 2 of 4
Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SLP Metals		Other		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								
Project Location/State		Lab PM												
Lab ID	MS/MSD	Sample ID	Date	Time									Comments	
Waston														3.5
IDOT-040														
Braidwood & Custer Park / IL		D. Wright												
T. Walls														
11		F108-1(0-1)-031116	3-11-16	0930	2	S	X	X	X	X	X			
12		AL110-1(0-1)-031116		0940										
13		AL110-2(0-1)-031116		0950										
14		RB9-7(0-1)-031116		1035										
15		VL84-1(0-2)-031116		1045										
16		VL84-2(0-1)-031116		1055										
17		VL84-3(0-1)-031116		1105										
18		VL84-4(0-1)-031116		1110										
19		AL79-4(0-1)-031116		1115										
20		AL79-4(0-1)-031116	3-11-16	1115	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>Waston</u>	Date: <u>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-ATI</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>16:20</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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):

19500 block of W. IL 113, (ISGS Site No. 2948-85)

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: 41.232984634 Longitude: -88.092861321

(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: 41.232984634 Longitude: -88.092861321Uncontaminated 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 AB85-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-85. SEE FIGURE 3-13 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: 500-108578-1.
ALSO SEE FIGURE 4-13 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. 2948-85
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	AB85-1(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	
Location ID	AB85-1	
Depth	0 - 1	
Location Code	2948-85	
Parameter		
Laboratory pH	8.57	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	750 J	900 / 1100 / 1800
Benzo(a)pyrene	910 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1500 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	99 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	470 J	900 / 900 / 1600
Total Metals (mg/kg)		
Arsenic, Total	1.4	11.3 / 13
Barium, Total	11	1500
Beryllium, Total	0.13 J	22
Cadmium, Total	0.12	5.2
Calcium, Total	29000 J	---
Chromium, Total	2.9	21
Iron, Total	4900 J-	15000 / 15900
Lead, Total	12 J	107
Manganese, Total	170 J-	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	3.7	100
Potassium, Total	270 J+	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	15	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.11 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0023 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.4	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.011 J	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.052 J	5
SPLP Metals (mg/l)		
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	3.9 J-	5
Lead, SPLP	0.018	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	0.39 J	5

Summary Table of ISGS Site No. 2948-85
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.

^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

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

LINKS

Review your project
results through
TotalAccess

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Visit us at:
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: 500-108578-1

Client Sample ID: AB85-1(0-1)-030916

Lab Sample ID: 500-108578-1

Date Collected: 03/09/16 13:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/11/16 15:22	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 15:22	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/11/16 15:22	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 15:22	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 15:22	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 15:22	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 15:22	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/11/16 15:22	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/11/16 15:22	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 15:22	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 15:22	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/11/16 15:22	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 15:22	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/11/16 15:22	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 15:22	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/11/16 15:22	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 15:22	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/11/16 15:22	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/11/16 15:22	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/11/16 15:22	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 15:22	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/11/16 15:22	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 15:22	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/11/16 15:22	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 15:22	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 15:22	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/11/16 15:22	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 15:22	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 15:22	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/11/16 15:22	1
Dibromofluoromethane	109		75 - 120		03/11/16 15:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/11/16 15:22	1
Toluene-d8 (Surr)	106		75 - 122		03/11/16 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	<180		180	38	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AB85-1(0-1)-030916

Lab Sample ID: 500-108578-1

Date Collected: 03/09/16 13:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.9

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	☼	03/10/16 21:43	03/16/16 03:27	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Methylnaphthalene	10	J	35	6.5	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Acenaphthene	17	J	35	6.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Acenaphthylene	200		35	4.7	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Anthracene	130		35	5.9	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Benzo[a]anthracene	750	*	35	4.8	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Benzo[a]pyrene	910	*	35	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Benzo[b]fluoranthene	1500	*	35	7.6	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Benzo[g,h,i]perylene	360	*	35	11	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Benzo[k]fluoranthene	540	*	35	10	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Chrysene	790	*	35	9.6	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Dibenz(a,h)anthracene	99	*	35	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Fluoranthene	1100		35	6.6	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Fluorene	20	J	35	5.0	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AB85-1(0-1)-030916

Lab Sample ID: 500-108578-1

Date Collected: 03/09/16 13:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.9

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	470	*	35	9.2	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Naphthalene	7.9	J	35	5.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Phenanthrene	280		35	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Phenol	<180		180	79	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Pyrene	1900	*	35	7.0	ug/Kg	☼	03/10/16 21:43	03/16/16 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		35 - 137				03/10/16 21:43	03/16/16 03:27	1
2-Fluorobiphenyl	76		25 - 119				03/10/16 21:43	03/16/16 03:27	1
2-Fluorophenol	84		25 - 110				03/10/16 21:43	03/16/16 03:27	1
Nitrobenzene-d5	69		25 - 115				03/10/16 21:43	03/16/16 03:27	1
Phenol-d5	85		31 - 110				03/10/16 21:43	03/16/16 03:27	1
Terphenyl-d14	158	X *	36 - 134				03/10/16 21:43	03/16/16 03:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Barium	0.11	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 00:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 00:19	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 00:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 00:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 00:19	1
Manganese	1.4		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Nickel	0.011	J	0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 15:51	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:19	1
Zinc	0.052	J ^	0.50	0.020	mg/L		03/19/16 12:28	03/20/16 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 17:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Iron	3.9		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 17:13	1
Lead	0.018		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 17:13	1
Manganese	0.14		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 17:13	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AB85-1(0-1)-030916

Lab Sample ID: 500-108578-1

Date Collected: 03/09/16 13:02

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 92.9

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		03/18/16 15:13	03/19/16 17:13	1
Zinc	0.39	J B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 17:13	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	☼	03/16/16 08:57	03/18/16 02:13	1
Arsenic	1.4		0.53	0.24	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Barium	11		0.53	0.096	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Beryllium	0.13	J	0.21	0.046	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Cadmium	0.12		0.11	0.030	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Calcium	29000	B	110	34	mg/Kg	☼	03/16/16 08:57	03/18/16 14:44	10
Chromium	2.9		0.53	0.090	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Cobalt	1.9		0.26	0.059	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Copper	3.0		0.53	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Iron	4900	B	11	4.1	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Lead	12	F1 F2	0.26	0.13	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Magnesium	16000	B	5.3	2.1	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Manganese	170		0.53	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Nickel	3.7		0.53	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Potassium	270	F1	26	4.3	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Sodium	590		53	6.9	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Vanadium	5.9		0.26	0.077	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	1
Zinc	15		1.1	0.33	mg/Kg	☼	03/16/16 08:57	03/18/16 02:13	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		03/19/16 18:45	03/21/16 09:49	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		03/18/16 17:45	03/19/16 15:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/17/16 13:00	03/18/16 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			03/12/16 11:47	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

Client: <u>Weston Solutions</u>		Client Project #: <u>02056-014-040-0020</u>		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: <u>IDOT 040 -</u>		Lab Project #		Parameter								
Project Location/State		Lab Project #										
Sampler: <u>M. Doherty-Skubic</u>		Lab PM: <u>D. WRIGHT</u>										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
<u>1</u>		<u>AB85-1(0-1)-030916</u>	<u>3-9-16</u>	<u>1302</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>WL86-1(0-1)-030916</u>		<u>1319</u>								
<u>3</u>		<u>AL87-1(0-1)-030916</u>		<u>1330</u>								
<u>4</u>		<u>F88-1(0-1)-030916</u>		<u>1340</u>								
<u>5</u>		<u>AL90-1(0-1)-030916</u>		<u>1355</u>								
<u>6</u>		<u>F91-1(0-1)-030916</u>		<u>1408</u>								
<u>7</u>		<u>F91-1(0-1)-030916D</u>		<u>1408</u>								
<u>8</u>		<u>R89-1(0-1)-030916</u>		<u>1420</u>								
<u>9</u>		<u>WL92-1(0-1)-030916</u>		<u>1430</u>								
<u>10</u>		<u>WL92-2(0-1)-030916</u>	<u>3-9-16</u>	<u>1442</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) _____
 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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</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: _____



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):
19612-19956 W. IL 113, (ISGS Site No. 2948-89)

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: 41.231834857 Longitude: -88.086047447
(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: 41.231834857 Longitude: -88.086047447

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 R89-1 THROUGH R89-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-89. SEE FIGURES 3-13/3-14 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 IDs: 500-108389-1, 500-108391-1, AND 500-108578-1. ALSO SEE FIGURES 4-13 AND 4-14 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. 2948-89
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	R89-1(0-1)-030916	R89-2(0-1)-030416	R89-3(0-1)-030416	R89-4(0-1)-030416	R89-5(0-1)-030416	R89-6(0-1)-030416	Soil Reference Concentrations
Sample Date	3/9/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	R89-1	R89-2	R89-3	R89-4	R89-5	R89-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-89	2948-89	2948-89	2948-89	2948-89	2948-89	
Parameter							
Laboratory pH	8.3	7.44	8.27	8.43	8.61	8.12	<6.25,>9.0
VOCs (ug/kg)	None Detected						
SVOCs (ug/kg)							
Benzo(a)anthracene	ND	97	ND	ND	91	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	140 J	ND	14 J	110	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	10 J	240 J	ND	20 J	170	ND	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	ND	ND	ND	11 J	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	64 J	ND	ND	67	ND	900 / 900 / 1600
Total Metals (mg/kg)							
Arsenic, Total	2.4	1.2 J	10 J	4	9.3	8.5	11.3 / 13
Barium, Total	32	41	44	35 J	38 J	53 J	1500
Beryllium, Total	0.18 J	0.13 J	0.62	0.48	0.53	0.52	22
Cadmium, Total	0.093 J	0.13	ND	ND	ND	ND	5.2
Calcium, Total	33000 J	25000 J	1200 J	25000 J	4600 J	1600 J	---
Chromium, Total	3.7	6.7 B	18 B	10 B	9.5 B	9.5 B	21
Iron, Total	5600 J-	4300 J	27000 J	15000 J+	24000 J+	21000 J+	15000 / 15900
Lead, Total	5.6 J	23 J+	17 J+	21 J	20 J	12 J	107
Manganese, Total	380 J-	140 J	390 J	300 J+	630 J+	750 J+	630 / 636
Mercury, Total	ND	ND	ND	0.032 J	0.042 J	0.01 J	0.89
Nickel, Total	4.8	4.9 J	17 J	16	16	15	100
Potassium, Total	490 J+	340 J	910 J	1400 J	790 J	750 J	---
Selenium, Total	0.27 J	ND	ND	0.39 J	0.42 J	0.44 J	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	15	31 J	39 J	41	46	44	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.3 J	0.21 J	0.13 J	0.22 J	0.2 J	0.17 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.002 J	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	ND	3	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.5	1.1	0.031	0.47	0.16	0.045	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	1.6	ND	ND	ND	ND	ND	5

Summary Table of ISGS Site No. 2948-89
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	R89-1(0-1)-030916	R89-2(0-1)-030416	R89-3(0-1)-030416	R89-4(0-1)-030416	R89-5(0-1)-030416	R89-6(0-1)-030416	Soil Reference Concentrations
Sample Date	3/9/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	R89-1	R89-2	R89-3	R89-4	R89-5	R89-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-89	2948-89	2948-89	2948-89	2948-89	2948-89	
Parameter							
SPLP Metals (mg/l)							
Arsenic, SPLP	ND	ND	0.081	0.063 J	ND	0.04 J	0.05
Barium, SPLP	0.15 J	ND	0.53 J-	0.53 J	0.064 J	0.26 J	2
Beryllium, SPLP	ND	ND	0.0074	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.02 J	ND	0.15	0.21	ND	0.07	0.1
Iron, SPLP	21 J-	3.4 J-	190 J-	240	1.4	110	5
Lead, SPLP	0.022	0.016	0.061	0.08	ND	0.029	0.0075
Manganese, SPLP	0.7	0.088 J-	2.2 J-	1.8	0.021 J	1.2	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.014 J	ND	0.14	0.19	ND	0.067	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	3 B	0.19 J	0.4 J	0.36 J	0.065 J	0.22 J	5

Notes:

- - not applicable or value not available.
- ^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

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

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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: 500-108578-1

Client Sample ID: R89-1(0-1)-030916

Lab Sample ID: 500-108578-8

Date Collected: 03/09/16 14:20

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/11/16 18:25	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/11/16 18:25	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/11/16 18:25	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/11/16 18:25	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/11/16 18:25	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/11/16 18:25	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/11/16 18:25	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/11/16 18:25	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/11/16 18:25	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/11/16 18:25	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/11/16 18:25	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/11/16 18:25	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/11/16 18:25	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/11/16 18:25	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/11/16 18:25	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/11/16 18:25	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/11/16 18:25	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/11/16 18:25	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/11/16 18:25	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/11/16 18:25	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/11/16 18:25	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/11/16 18:25	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/11/16 18:25	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/11/16 18:25	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/11/16 18:25	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/11/16 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		03/11/16 18:25	1
Dibromofluoromethane	108		75 - 120		03/11/16 18:25	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/11/16 18:25	1
Toluene-d8 (Surr)	106		75 - 122		03/11/16 18:25	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	☼	03/10/16 21:43	03/16/16 04:54	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: R89-1(0-1)-030916

Lab Sample ID: 500-108578-8

Date Collected: 03/09/16 14:20

Matrix: Solid

Date Received: 03/09/16 16:45

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	84	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Benzo[a]anthracene	<37 *		37	5.0	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Benzo[a]pyrene	<37 *		37	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Benzo[b]fluoranthene	10 J *		37	7.9	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Benzo[g,h,i]perylene	<37 *		37	12	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Benzo[k]fluoranthene	<37 *		37	11	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Bis(2-ethylhexyl) phthalate	<190 *		190	67	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Butyl benzyl phthalate	<190 *		190	70	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Chrysene	<37 *		37	10	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Dibenz(a,h)anthracene	<37 *		37	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: R89-1(0-1)-030916

Lab Sample ID: 500-108578-8

Date Collected: 03/09/16 14:20

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 87.4

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	9.5	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Phenanthrene	5.5	J	37	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Pyrene	9.0	J *	37	7.3	ug/Kg	☼	03/10/16 21:43	03/16/16 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/10/16 21:43	03/16/16 04:54	1
2-Fluorobiphenyl	73		25 - 119				03/10/16 21:43	03/16/16 04:54	1
2-Fluorophenol	76		25 - 110				03/10/16 21:43	03/16/16 04:54	1
Nitrobenzene-d5	60		25 - 115				03/10/16 21:43	03/16/16 04:54	1
Phenol-d5	75		31 - 110				03/10/16 21:43	03/16/16 04:54	1
Terphenyl-d14	172	X *	36 - 134				03/10/16 21:43	03/16/16 04:54	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		03/19/16 12:28	03/20/16 01:02	1
Barium	0.30	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 01:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 01:02	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 01:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 01:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 01:02	1
Manganese	1.5		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 11:24	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:02	1
Zinc	1.6		0.50	0.020	mg/L		03/19/16 12:28	03/21/16 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Barium	0.15	J	0.50	0.050	mg/L		03/18/16 15:13	03/19/16 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 17:53	1
Chromium	0.020	J	0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Copper	0.012	J	0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Iron	21		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 17:53	1
Lead	0.022		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 17:53	1
Manganese	0.70		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Nickel	0.014	J	0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 17:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: R89-1(0-1)-030916

Lab Sample ID: 500-108578-8

Date Collected: 03/09/16 14:20

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:13	03/19/16 17:53	1
Zinc	3.0	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 17:53	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	☼	03/16/16 08:57	03/18/16 03:15	1
Arsenic	2.4		0.55	0.25	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Barium	32		0.55	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Beryllium	0.18	J	0.22	0.048	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Cadmium	0.093	J	0.11	0.032	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Calcium	33000	B	11	3.6	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Chromium	3.7		0.55	0.095	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Cobalt	3.0		0.28	0.062	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Copper	3.0		0.55	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Iron	5600	B	11	4.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Lead	5.6		0.28	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Magnesium	21000	B	5.5	2.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Manganese	380		0.55	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Nickel	4.8		0.55	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Potassium	490		28	4.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Selenium	0.27	J	0.55	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Sodium	450		55	7.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Vanadium	8.7		0.28	0.081	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	1
Zinc	15		1.1	0.35	mg/Kg	☼	03/16/16 08:57	03/18/16 03:15	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		03/19/16 18:45	03/21/16 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/17/16 13:00	03/18/16 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			03/12/16 12:21	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

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		Parameter						
Project Location/State		Lab Project #		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
1		AB85-1(0-1)-030916	3-9-16	1302	2	S	X	X	X	X	X	
2		WL86-1(0-1)-030916		1319								
3		AL87-1(0-1)-030916		1330								
4		F88-1(0-1)-030916		1340								
5		AL90-1(0-1)-030916		1355								
6		F91-1(0-1)-030916		1408								
7		F91-1(0-1)-030916D		1408								
8		R89-1(0-1)-030916		1420								
9		WL92-1(0-1)-030916		1430								
10		WL92-2(0-1)-030916	3-9-16	1442	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days) 2 Days
 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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</u> Time: <u>1645</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: 500-108389-1
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 4:55:33 PM

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

LINKS

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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: 500-108389-1

Client Sample ID: R89-4(0-1)-030416

Lab Sample ID: 500-108389-1

Date Collected: 03/04/16 14:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 83.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24	F2	24	4.6	ug/Kg	☼		03/07/16 10:27	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 10:27	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/07/16 10:27	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 10:27	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 10:27	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/07/16 10:27	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/07/16 10:27	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/07/16 10:27	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/07/16 10:27	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/07/16 10:27	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 10:27	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 10:27	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 10:27	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/07/16 10:27	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/07/16 10:27	1
Methyl Ethyl Ketone	<6.0	F2	6.0	2.1	ug/Kg	☼		03/07/16 10:27	1
methyl isobutyl ketone	<6.0	F2	6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/07/16 10:27	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/07/16 10:27	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/07/16 10:27	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/07/16 10:27	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/07/16 10:27	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/07/16 10:27	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/07/16 10:27	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/07/16 10:27	1
Dibromofluoromethane	109		75 - 120		03/07/16 10:27	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/07/16 10:27	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-4(0-1)-030416

Lab Sample ID: 500-108389-1

Date Collected: 03/04/16 14:25

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/08/16 07:20	03/09/16 00:02	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Anthracene	<39		39	6.6	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Benzo[a]pyrene	14 J		39	7.6	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Benzo[b]fluoranthene	20 J		39	8.5	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Carbazole	<200		200	98	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Chrysene	14 J		39	11	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Fluoranthene	22 J		39	7.3	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-4(0-1)-030416

Lab Sample ID: 500-108389-1

Date Collected: 03/04/16 14:25

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/08/16 07:20	03/09/16 00:02	1
Isophorone	<200		200	44	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Phenanthrene	12	J	39	5.5	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Phenol	<200		200	87	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Pyrene	22	J	39	7.8	ug/Kg	☼	03/08/16 07:20	03/09/16 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137				03/08/16 07:20	03/09/16 00:02	1
2-Fluorobiphenyl	74		25 - 119				03/08/16 07:20	03/09/16 00:02	1
2-Fluorophenol	66		25 - 110				03/08/16 07:20	03/09/16 00:02	1
Nitrobenzene-d5	70		25 - 115				03/08/16 07:20	03/09/16 00:02	1
Phenol-d5	53		31 - 110				03/08/16 07:20	03/09/16 00:02	1
Terphenyl-d14	98		36 - 134				03/08/16 07:20	03/09/16 00:02	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 14:47	03/09/16 14:38	1
Barium	0.22	J	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:38	1
Manganese	0.47		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:38	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:38	1
Zinc	<0.50		0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063	J	0.25	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Barium	0.53	J	2.5	0.25	mg/L		03/09/16 08:45	03/10/16 06:54	5
Beryllium	<0.020		0.020	0.020	mg/L		03/09/16 08:45	03/10/16 06:54	5
Cadmium	<0.025	^	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:54	5
Chromium	0.21		0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Cobalt	0.062	J	0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Copper	0.13		0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Iron	240		2.0	1.0	mg/L		03/09/16 08:45	03/10/16 06:54	5
Lead	0.080		0.038	0.038	mg/L		03/09/16 08:45	03/10/16 06:54	5
Manganese	1.8		0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Nickel	0.19		0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Selenium	<0.25		0.25	0.10	mg/L		03/09/16 08:45	03/10/16 06:54	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-4(0-1)-030416

Lab Sample ID: 500-108389-1

Date Collected: 03/04/16 14:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.13		0.13	0.050	mg/L		03/09/16 08:45	03/10/16 06:54	5
Zinc	0.36	J	2.5	0.10	mg/L		03/09/16 08:45	03/10/16 06:54	5

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1 F2	1.2	0.24	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Arsenic	4.0		0.58	0.27	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Barium	35	F1 F2	0.58	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Beryllium	0.48		0.23	0.050	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Cadmium	<0.12	F1	0.12	0.033	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Calcium	25000	B F2	12	3.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Chromium	10	B	0.58	0.099	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Cobalt	7.6		0.29	0.065	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Copper	10		0.58	0.13	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Iron	15000	B	12	4.5	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Lead	21	F1 F2	0.29	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Magnesium	9100	B F2	5.8	2.3	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Manganese	300	B	0.58	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Nickel	16		0.58	0.16	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Potassium	1400	F1 F2	29	4.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Selenium	0.39	J F1	0.58	0.29	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Silver	<0.29	F1	0.29	0.068	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Sodium	1000		58	7.6	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Thallium	<0.58	F1	0.58	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Vanadium	11	F1	0.29	0.084	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	1
Zinc	41		1.2	0.37	mg/Kg	☼	03/08/16 15:34	03/09/16 15:25	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		03/08/16 19:15	03/09/16 13:34	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 14:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	32	F1 F2	19	9.9	ug/Kg	☼	03/07/16 19:00	03/09/16 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			03/07/16 15:52	1

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-5(0-1)-030416

Lab Sample ID: 500-108389-2

Date Collected: 03/04/16 14:43

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 85.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/07/16 11:53	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 11:53	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/07/16 11:53	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 11:53	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 11:53	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 11:53	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 11:53	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/07/16 11:53	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 11:53	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 11:53	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 11:53	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/07/16 11:53	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 11:53	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/07/16 11:53	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 11:53	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 11:53	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 11:53	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/07/16 11:53	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/07/16 11:53	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 11:53	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 11:53	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/07/16 11:53	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 11:53	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/07/16 11:53	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 11:53	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 11:53	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 11:53	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 11:53	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 11:53	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 11:53	1
Dibromofluoromethane	107		75 - 120		03/07/16 11:53	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 11:53	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 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	40	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-5(0-1)-030416

Lab Sample ID: 500-108389-2

Date Collected: 03/04/16 14:43

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Acenaphthylene	27	J	37	4.9	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Anthracene	12	J	37	6.2	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Benzo[a]anthracene	91		37	5.0	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Benzo[a]pyrene	110		37	7.2	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Benzo[b]fluoranthene	170		37	8.1	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Benzo[g,h,i]perylene	53		37	12	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Benzo[k]fluoranthene	65		37	11	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Carbazole	<190		190	93	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Chrysene	110		37	10	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Dibenz(a,h)anthracene	11	J	37	7.2	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Fluoranthene	200		37	6.9	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-5(0-1)-030416

Lab Sample ID: 500-108389-2

Date Collected: 03/04/16 14:43

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	67		37	9.7	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Phenanthrene	54		37	5.2	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Phenol	<190		190	83	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Pyrene	140		37	7.4	ug/Kg	☼	03/08/16 07:20	03/10/16 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	15	X	35 - 137				03/08/16 07:20	03/10/16 12:09	1
2-Fluorobiphenyl	69		25 - 119				03/08/16 07:20	03/10/16 12:09	1
2-Fluorophenol	74		25 - 110				03/08/16 07:20	03/10/16 12:09	1
Nitrobenzene-d5	62		25 - 115				03/08/16 07:20	03/10/16 12:09	1
Phenol-d5	67		31 - 110				03/08/16 07:20	03/10/16 12:09	1
Terphenyl-d14	66		36 - 134				03/08/16 07:20	03/10/16 12:09	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		03/08/16 14:47	03/09/16 14:44	1
Barium	0.20	J	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Iron	3.0		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:44	1
Manganese	0.16		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:44	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:44	1
Zinc	0.076	J B	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:44	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		03/09/16 08:45	03/10/16 07:01	1
Barium	0.064	J	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 07:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 07:01	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 07:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:01	1
Copper	0.052		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:01	1
Iron	1.4		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 07:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 07:01	1
Manganese	0.021	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 07:01	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-5(0-1)-030416

Lab Sample ID: 500-108389-2

Date Collected: 03/04/16 14:43

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 85.6

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		03/09/16 08:45	03/10/16 07:01	1
Zinc	0.065	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 07:01	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	☼	03/08/16 15:34	03/09/16 15:54	1
Arsenic	9.3		0.57	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Barium	38		0.57	0.10	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Beryllium	0.53		0.23	0.050	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Calcium	4600	B	11	3.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Chromium	9.5	B	0.57	0.099	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Cobalt	8.7		0.29	0.065	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Copper	11		0.57	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Iron	24000	B	11	4.4	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Lead	20		0.29	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Magnesium	3500	B	5.7	2.3	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Manganese	630	B	0.57	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Nickel	16		0.57	0.16	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Potassium	790		29	4.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Selenium	0.42	J	0.57	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Sodium	520		57	7.6	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Vanadium	17		0.29	0.084	mg/Kg	☼	03/08/16 15:34	03/09/16 15:54	1
Zinc	46		1.1	0.36	mg/Kg	☼	03/08/16 15:34	03/09/16 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		03/08/16 19:15	03/09/16 13:36	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 14:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	42		19	10	ug/Kg	☼	03/07/16 19:00	03/09/16 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			03/07/16 15:55	1

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-6(0-1)-030416

Lab Sample ID: 500-108389-3

Date Collected: 03/04/16 15:02

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼		03/07/16 12:19	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 12:19	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/07/16 12:19	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 12:19	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 12:19	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 12:19	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/07/16 12:19	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/07/16 12:19	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/07/16 12:19	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 12:19	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 12:19	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 12:19	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 12:19	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/07/16 12:19	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/07/16 12:19	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 12:19	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/07/16 12:19	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 12:19	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 12:19	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 12:19	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 12:19	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/07/16 12:19	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 12:19	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 12:19	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/07/16 12:19	1
Dibromofluoromethane	106		75 - 120		03/07/16 12:19	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 12:19	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-6(0-1)-030416

Lab Sample ID: 500-108389-3

Date Collected: 03/04/16 15:02

Matrix: Solid

Date Received: 03/04/16 16:50

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	<380		380	88	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Benzo[a]pyrene	<38 *		38	7.4	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Benzo[b]fluoranthene	<38 *		38	8.3	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Benzo[g,h,i]perylene	<38 *		38	12	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Benzo[k]fluoranthene	<38 *		38	11	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Chrysene	<38		38	10	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Dibenz(a,h)anthracene	<38 *		38	7.4	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-6(0-1)-030416

Lab Sample ID: 500-108389-3

Date Collected: 03/04/16 15:02

Matrix: Solid

Date Received: 03/04/16 16:50

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	<38	*	38	10	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Pyrene	<38		38	7.6	ug/Kg	☼	03/07/16 16:59	03/09/16 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137				03/07/16 16:59	03/09/16 02:58	1
2-Fluorobiphenyl	73		25 - 119				03/07/16 16:59	03/09/16 02:58	1
2-Fluorophenol	81		25 - 110				03/07/16 16:59	03/09/16 02:58	1
Nitrobenzene-d5	75		25 - 115				03/07/16 16:59	03/09/16 02:58	1
Phenol-d5	78		31 - 110				03/07/16 16:59	03/09/16 02:58	1
Terphenyl-d14	103		36 - 134				03/07/16 16:59	03/09/16 02:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Barium	0.17	J	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:49	1
Manganese	0.045		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:49	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:49	1
Zinc	0.088	J B	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Barium	0.26	J	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 07:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 07:08	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 07:08	1
Chromium	0.070		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Cobalt	0.017	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Copper	0.064		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Iron	110		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 07:08	1
Lead	0.029		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 07:08	1
Manganese	1.2		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Nickel	0.067		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 07:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 07:08	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108389-1

Client Sample ID: R89-6(0-1)-030416

Lab Sample ID: 500-108389-3

Date Collected: 03/04/16 15:02

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 08:45	03/10/16 07:08	1
Zinc	0.22	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 07:08	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	☼	03/08/16 15:34	03/09/16 15:59	1
Arsenic	8.5		0.58	0.27	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Barium	53		0.58	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Beryllium	0.52		0.23	0.050	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Calcium	1600	B	12	3.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Chromium	9.5	B	0.58	0.099	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Cobalt	9.7		0.29	0.065	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Copper	9.1		0.58	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Iron	21000	B	12	4.4	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Lead	12		0.29	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Magnesium	1600	B	5.8	2.3	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Manganese	750	B	0.58	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Nickel	15		0.58	0.16	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Potassium	750		29	4.7	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Selenium	0.44	J	0.58	0.29	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Sodium	670		58	7.6	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Vanadium	17		0.29	0.084	mg/Kg	☼	03/08/16 15:34	03/09/16 15:59	1
Zinc	44		1.2	0.36	mg/Kg	☼	03/08/16 15:34	03/09/16 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		03/08/16 19:15	03/09/16 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		03/08/16 19:15	03/10/16 14:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J	18	9.2	ug/Kg	☼	03/07/16 19:00	03/09/16 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			03/07/16 15:59	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108389-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

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

Metals

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.
^	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.
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.
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: 500-108389-1

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: <u>B. Baburkumar</u>	Contact: <u>SAME</u>
Company: <u>Weston Solutions</u>	Company: _____
Address: <u>300 Plaza Circle, Ste 200</u>	Address: _____
Address: <u>Muncie, IN, IL 60060</u>	Address: _____
Phone: <u>224-864-7250</u>	Phone: _____
Fax: <u>224-864-7236</u>	Fax: _____
E-Mail: _____	PO#/Reference# _____


Chain of Custody Record

Lab Job #: 500-108389

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 3.7

Client		Client Project #		Preservative		Parameter		Matrix		 <p>Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° Cool to 4° Cool to 4°</p> <p>500-108389 COC</p> <p>Comments</p>	
Project Name		Lab Project #		Sampling		Matrix		<p>VOCs</p> <p>SVOCs</p> <p>TOXIC Metals</p> <p>TCUPPER Metals</p> <p>pH</p>			
Project Location/State		Lab PM		Date	Time	# of Containers	Matrix				
Lab ID	MS/MSD	Sample ID									
Weston Solutions Inc.		02036-014010									
IDOT 040-IL 113											
Bradwood, IL		D WRIGHT									
M. Dineen-Skubie											
1		R89-4(0-1)-030416	3-4-16	1425	2	S	X	X	X	X	
2		R89-5(0-1)-030416	3-4-16	1443	2	S	X	X	X	X	
3		R89-6(0-1)-030416	3-4-16	1502	2	S	X	X	X	X	
LAST MEMO										MCS	
										MCS	

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Per Subject 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. Dineen-Skubie</u> Company: <u>Weston</u> Date: <u>3-4-2016</u> Time: <u>1530</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/4/16</u> Time: <u>1536</u>	Lab Courier: <u>TA-LPH</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-LPH</u> Date: <u>03/04/16</u> Time: <u>1650</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

<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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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: 500-108391-1
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 8:14:52 AM

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

LINKS

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results through
TotalAccess

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Visit us at:
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: 500-108391-1

Client Sample ID: R89-2(0-1)-030416

Lab Sample ID: 500-108391-19

Date Collected: 03/04/16 13:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/07/16 22:40	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 22:40	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 22:40	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 22:40	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 22:40	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 22:40	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 22:40	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 22:40	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 22:40	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 22:40	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 22:40	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 22:40	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 22:40	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 22:40	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 22:40	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 22:40	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 22:40	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 22:40	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 22:40	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 22:40	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 22:40	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 22:40	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 22:40	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 22:40	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 22:40	1
Dibromofluoromethane	108		75 - 120		03/07/16 22:40	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 22:40	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-2(0-1)-030416

Lab Sample ID: 500-108391-19

Date Collected: 03/04/16 13:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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 07:10	03/10/16 18:50	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Acenaphthylene	13	J	37	4.9	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Anthracene	11	J	37	6.2	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Benzo[a]anthracene	97		37	5.0	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Benzo[a]pyrene	140	*	37	7.2	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Benzo[b]fluoranthene	240	*	37	8.1	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Benzo[g,h,i]perylene	65	*	37	12	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Benzo[k]fluoranthene	86	*	37	11	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Chrysene	130		37	10	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Fluoranthene	230		37	6.9	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-2(0-1)-030416

Lab Sample ID: 500-108391-19

Date Collected: 03/04/16 13:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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	64	*	37	9.7	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Phenanthrene	71		37	5.2	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Pyrene	240		37	7.4	ug/Kg	☼	03/07/16 07:10	03/10/16 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		35 - 137				03/07/16 07:10	03/10/16 18:50	1
2-Fluorobiphenyl	88		25 - 119				03/07/16 07:10	03/10/16 18:50	1
2-Fluorophenol	93		25 - 110				03/07/16 07:10	03/10/16 18:50	1
Nitrobenzene-d5	82		25 - 115				03/07/16 07:10	03/10/16 18:50	1
Phenol-d5	88		31 - 110				03/07/16 07:10	03/10/16 18:50	1
Terphenyl-d14	126		36 - 134				03/07/16 07:10	03/10/16 18:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Barium	0.21	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 16:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 16:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 16:24	1
Manganese	1.1		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 16:24	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:24	1
Zinc	0.52	B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Barium	<0.50		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Iron	3.4		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:47	1
Lead	0.016		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:47	1
Manganese	0.088		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-2(0-1)-030416

Lab Sample ID: 500-108391-19

Date Collected: 03/04/16 13:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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		03/09/16 15:30	03/10/16 23:47	1
Zinc	0.19	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:47	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	☼	03/07/16 09:39	03/07/16 22:25	1
Arsenic	1.2		0.52	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Barium	41		0.52	0.094	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Beryllium	0.13	J	0.21	0.045	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Cadmium	0.13		0.10	0.030	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Calcium	25000	B	10	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Chromium	6.7	B	0.52	0.089	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Cobalt	2.1		0.26	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Copper	4.0		0.52	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Iron	4300	B	10	4.0	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Lead	23		0.26	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Magnesium	15000		5.2	2.1	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Manganese	140	B	0.52	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Nickel	4.9	B	0.52	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Potassium	340	B	26	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Sodium	390		52	6.8	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Vanadium	7.4		0.26	0.075	mg/Kg	☼	03/07/16 09:39	03/07/16 22:25	1
Zinc	31		1.0	0.33	mg/Kg	☼	03/07/16 09:39	03/08/16 14:41	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	03/10/16 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 10:41	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 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44		0.200	0.200	SU			03/08/16 14:36	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-3(0-1)-030416

Lab Sample ID: 500-108391-20

Date Collected: 03/04/16 14:05

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 23:06	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 23:06	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/07/16 23:06	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 23:06	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 23:06	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/07/16 23:06	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 23:06	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 23:06	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/07/16 23:06	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/07/16 23:06	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 23:06	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 23:06	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 23:06	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/07/16 23:06	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/07/16 23:06	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/07/16 23:06	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/07/16 23:06	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/07/16 23:06	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/07/16 23:06	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/07/16 23:06	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 23:06	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/07/16 23:06	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/07/16 23:06	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/07/16 23:06	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/07/16 23:06	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/07/16 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 23:06	1
Dibromofluoromethane	107		75 - 120		03/07/16 23:06	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 23:06	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 23:06	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 07:10	03/08/16 14:52	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-3(0-1)-030416

Lab Sample ID: 500-108391-20

Date Collected: 03/04/16 14:05

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 07:10	03/08/16 14:52	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Chrysene	<37		37	10	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-3(0-1)-030416

Lab Sample ID: 500-108391-20

Date Collected: 03/04/16 14:05

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 07:10	03/08/16 14:52	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Pyrene	<37		37	7.4	ug/Kg	☼	03/07/16 07:10	03/08/16 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/07/16 07:10	03/08/16 14:52	1
2-Fluorobiphenyl	98		25 - 119				03/07/16 07:10	03/08/16 14:52	1
2-Fluorophenol	110		25 - 110				03/07/16 07:10	03/08/16 14:52	1
Nitrobenzene-d5	105		25 - 115				03/07/16 07:10	03/08/16 14:52	1
Phenol-d5	56		31 - 110				03/07/16 07:10	03/08/16 14:52	1
Terphenyl-d14	116		36 - 134				03/07/16 07:10	03/08/16 14:52	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		03/09/16 15:25	03/10/16 16:30	1
Barium	0.13	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 16:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 16:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 16:30	1
Manganese	0.031		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 16:30	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:30	1
Zinc	0.069	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.081		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Barium	0.53		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:53	1
Beryllium	0.0074		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:53	1
Chromium	0.15		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Cobalt	0.035		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Copper	0.11		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Iron	190		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:53	1
Lead	0.061		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:53	1
Manganese	2.2		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Nickel	0.14		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: R89-3(0-1)-030416

Lab Sample ID: 500-108391-20

Date Collected: 03/04/16 14:05

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		03/09/16 15:30	03/10/16 23:53	1
Zinc	0.40	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:53	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	☼	03/07/16 09:39	03/07/16 22:30	1
Arsenic	10		0.56	0.26	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Barium	44		0.56	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Calcium	1200	B	11	3.6	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Chromium	18	B	0.56	0.097	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Cobalt	7.8		0.28	0.064	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Copper	13		0.56	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Iron	27000	B	11	4.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Lead	17		0.28	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Magnesium	1900		5.6	2.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Manganese	390	B	0.56	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Nickel	17	B	0.56	0.15	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Potassium	910	B	28	4.6	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Sodium	680		56	7.4	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Vanadium	25		0.28	0.082	mg/Kg	☼	03/07/16 09:39	03/07/16 22:30	1
Zinc	39		1.1	0.36	mg/Kg	☼	03/07/16 09:39	03/08/16 14:46	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		03/09/16 17:30	03/11/16 12:06	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		03/09/16 17:30	03/11/16 11:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	54	B	18	9.4	ug/Kg	☼	03/07/16 19:00	03/11/16 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			03/08/16 14:39	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108391-1

Qualifiers

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
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
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.
^	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: 500-108391-1

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. Bahamundar
Company: Weston Solutions Inc.
Address: 300 Plaza Circle, Ste 202
Address: Mundelein, IL 60060
Phone: 224-564-7250
Fax: 224-864-7236
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108391
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: 37

Client		Client Project #		Preservative		Parameter		Matrix		 500-108391 COC Preservative Key Cool to 4° Cool to 4° Cool to 4° Cool to 4°
Weston Solutions Inc.		02052 014 040 0030		7 7 7 7 7		VOLs		SVOls		
Project Name		Lab Project #		Matrix		Total Metals		TURBIDITY		
1005 040 - IL 113						Metals		PH		
Project Location/State		Lab PM								Comments
Braidwood, IL		D. Wright								
Sampler										
M. DeChery - Skubic										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
1		KR94-27(0-1)-030416	3-4-16	0845	2	S	X	X	X	
2		KR94-28(0-1)-030416		0858	1					
3		KR94-29(0-1)-030416		0915	1					
4		KR94-30(0-1)-030416		0930	1					
5		KR94-31(0-1)-030416		0955	1					
6		KR94-31(0-1)-030416		0955	1					
7		KR94-32(0-1)-030416		1030	1					
8		KR94-33(0-1)-030416		1055	1					
9		KR94-34(0-1)-030416		1115	1					
10		KR94-35(0-1)-030416	3-4-16	1125	2	S	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ PS 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>3-4-2016</u>	Time <u>1536</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1536</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</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-GH
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 Contact: <u>S. Babuse Kumar</u> Company: <u>Weston Solutions</u> Address: <u>300 Plaza Circle, Ste 200</u> Address: <u>Murkirt, IL 60060</u> Phone: <u>224-864-7250</u> Fax: <u>224-864-7236</u> E-Mail:	(optional)	Bill To Contact: <u>SAME</u> Company: Address: Address: Phone: Fax: PO#/Reference#	(optional)
---	------------	---	------------

Chain of Custody Record

Lab Job #: 500-108391
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 3.7

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 #		Sampler		Lab PM		# of Containers	Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	Matrix	Matrix	Matrix				
Weston Solutions		12056.014.040.0530		7 7 7 7 7		VOLUS		SVOCs			
1DOTC40-IL113				TOTAL METALS		TEMP/SPEC METALS		PH			
Broadwood, IL				M. Deivany - skuba		D. Wright					
11		KR94-36(0-1)-030416	3-4-16	1145	2 S	X	X	X	X		X
12		KR94-37(0-1)-030416		1200	1						
13		KR94-38(0-1)-030416		1220	1						
14		KR94-39(0-1)-030416		1235	1						
15		KR94-40(0-1)-030416		1250	1						
16		KR94-41(0-1)-030416		1305	1						
17		KR94-41(0-1)-030416		1305	1						
18		KR94-42(0-1)-030416		1325	1						
19		RS9-2(0-1)-030416		1350	1						
20		RS9-3(0-1)-030416	3-4-16	1405	2 S	X	X	X	X		X

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>Gregory Bell</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1536</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1536</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</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-GHI
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):
19800 block of W. IL 113, (ISGS Site No. 2948-90)

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: 41.232071309 Longitude: -88.087435066
(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: 41.232071309 Longitude: -88.087435066

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 AL90-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-90. SEE FIGURE 3-13 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: 500-108578-1.
ALSO SEE FIGURE 4-13 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. 2948-90
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	AL90-1(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	
Location ID	AL90-1	
Depth	0 - 1	
Location Code	2948-90	
Parameter		
Laboratory pH	8.13	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	5.9 J	900 / 1100 / 1800
Benzo(a)pyrene	9.3 J	90 / 1300 / 2100
Benzo(b)fluoranthene	12 J	900 / 1500 / 2100
Total Metals (mg/kg)		
Arsenic, Total	7.3	11.3 / 13
Barium, Total	42	1500
Beryllium, Total	0.44	22
Cadmium, Total	ND	5.2
Calcium, Total	1500 J	---
Chromium, Total	10	21
Iron, Total	19000 J-	15000 / 15900
Lead, Total	9.8 J	107
Manganese, Total	480 J-	630 / 636
Mercury, Total	0.031	0.89
Nickel, Total	14	100
Potassium, Total	920 J+	---
Selenium, Total	0.45 J	1.3
Silver, Total	ND	4.4
Zinc, Total	37	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.12 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.26 J	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.59	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.062 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.094	0.05
Barium, SPLP	0.55	2
Beryllium, SPLP	0.0081	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.16	0.1
Iron, SPLP	280 J-	5
Lead, SPLP	0.12	0.0075
Manganese, SPLP	2.9	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.21	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.75 B	5

Summary Table of ISGS Site No. 2948-90
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.

^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108578-1

Client Sample ID: AL90-1(0-1)-030916

Lab Sample ID: 500-108578-5

Date Collected: 03/09/16 13:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 83.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/11/16 17:06	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/11/16 17:06	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/11/16 17:06	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/11/16 17:06	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/11/16 17:06	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/11/16 17:06	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/11/16 17:06	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/11/16 17:06	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/11/16 17:06	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/11/16 17:06	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/11/16 17:06	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/11/16 17:06	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/11/16 17:06	1
2-Hexanone	<6.0		6.0	1.8	ug/Kg	☼		03/11/16 17:06	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/11/16 17:06	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/11/16 17:06	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/11/16 17:06	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/11/16 17:06	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/11/16 17:06	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/11/16 17:06	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/11/16 17:06	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/11/16 17:06	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/11/16 17:06	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/11/16 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/11/16 17:06	1
Dibromofluoromethane	108		75 - 120		03/11/16 17:06	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/11/16 17:06	1
Toluene-d8 (Surr)	106		75 - 122		03/11/16 17:06	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 21:43	03/15/16 22:39	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AL90-1(0-1)-030916

Lab Sample ID: 500-108578-5

Date Collected: 03/09/16 13:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Benzo[a]anthracene	5.9 J		39	5.3	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Benzo[a]pyrene	9.3 J		39	7.6	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Benzo[b]fluoranthene	12 J		39	8.4	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Carbazole	<200		200	98	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Chrysene	<39		39	11	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Fluoranthene	10 J		39	7.3	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AL90-1(0-1)-030916

Lab Sample ID: 500-108578-5

Date Collected: 03/09/16 13:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Isophorone	<200		200	44	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Phenol	<200		200	87	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1
Pyrene	11	J	39	7.8	ug/Kg	☼	03/10/16 21:43	03/15/16 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137	03/10/16 21:43	03/15/16 22:39	1
2-Fluorobiphenyl	63		25 - 119	03/10/16 21:43	03/15/16 22:39	1
2-Fluorophenol	74		25 - 110	03/10/16 21:43	03/15/16 22:39	1
Nitrobenzene-d5	58		25 - 115	03/10/16 21:43	03/15/16 22:39	1
Phenol-d5	70		31 - 110	03/10/16 21:43	03/15/16 22:39	1
Terphenyl-d14	76		36 - 134	03/10/16 21:43	03/15/16 22:39	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		03/19/16 12:28	03/20/16 00:46	1
Barium	0.12	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 00:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Iron	0.26	J	0.40	0.20	mg/L		03/19/16 12:28	03/20/16 00:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 00:46	1
Manganese	0.59		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 16:06	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:46	1
Zinc	0.062	J ^	0.50	0.020	mg/L		03/19/16 12:28	03/20/16 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.094		0.050	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Barium	0.55		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 17:31	1
Beryllium	0.0081		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 17:31	1
Chromium	0.16		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Cobalt	0.064		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Copper	0.13		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Iron	280		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 17:31	1
Lead	0.12		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 17:31	1
Manganese	2.9		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Nickel	0.21		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 17:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: AL90-1(0-1)-030916

Lab Sample ID: 500-108578-5

Date Collected: 03/09/16 13:55

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 83.9

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		03/18/16 15:13	03/19/16 17:31	1
Zinc	0.75	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 17:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Arsenic	7.3		0.57	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Barium	42		0.57	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Beryllium	0.44		0.23	0.049	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Calcium	1500	B	11	3.7	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Chromium	10		0.57	0.098	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Cobalt	7.1		0.28	0.064	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Copper	8.6		0.57	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Iron	19000	B	11	4.4	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Lead	9.8		0.28	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Magnesium	1500	B	5.7	2.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Manganese	480		0.57	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Nickel	14		0.57	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Potassium	920		28	4.6	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Selenium	0.45	J	0.57	0.28	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Sodium	840		57	7.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Vanadium	18		0.28	0.083	mg/Kg	☼	03/16/16 08:57	03/18/16 03:00	1
Zinc	37		1.1	0.36	mg/Kg	☼	03/16/16 08:57	03/18/16 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		03/19/16 18:45	03/21/16 10:05	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		03/18/16 17:45	03/19/16 15:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31		19	9.8	ug/Kg	☼	03/17/16 13:00	03/18/16 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			03/12/16 12:06	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

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		Parameter						
Project Location/State		Lab Project #		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
1		AB85-1(0-1)-030916	3-9-16	1302	2	S	X	X	X	X	X	
2		WL86-1(0-1)-030916		1319								
3		AL87-1(0-1)-030916		1330								
4		F88-1(0-1)-030916		1340								
5		AL90-1(0-1)-030916		1355								
6		F91-1(0-1)-030916		1408								
7		F91-1(0-1)-030916D		1408								
8		R89-1(0-1)-030916		1420								
9		WL92-1(0-1)-030916		1430								
10		WL92-2(0-1)-030916	3-9-16	1442	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days) _____
 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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</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. Balasubramanian
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 207
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 #: 500-108578

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	
Weston Solutions Inc		005 02056-014-040000		7 7		7 7 7						
Project Name		Lab Project #		# of Containers		Matrix						
1 DOT 040- IL Route 113												
Project Location/State		Lab Project #		Matrix		Matrix						
Brandwood, IL												
Sampler		Lab PM		Matrix		Matrix						
M. Doherty-Skubic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TELP/SUP Metals	PH	Comments
11		F93-1(0-1)-030916	3-9-16	1451	2 S	S	X	X	X	X	X	
12		F93-2(0-1)-030916	3-9-16	1500	2 S	S	X	X	X	X	X	
13		F93-3(0-1)-030916	3-9-16	1510	2 S	S	X	X	X	X	X	
		LAST ITEM										MDS
												MDS
												MDS
												MDS
												MDS
												MDS

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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPH</u> Date: <u>3/9/16</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):
19815 W. IL 113, (ISGS Site No. 2948-91)

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: 41.231657441 Longitude: -88.085814273
(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: 41.231657441 Longitude: -88.085814273

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 F91-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-91. SEE FIGURE 3-13 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: 500-108578-1.
 ALSO SEE FIGURE 4-13 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. 2948-91
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	F91-1(0-1)-030916	F91-1(0-1)-030916D	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	
Location ID	F91-1	F91-1	
Depth	0 - 1	0 - 1	
Location Code	2948-91	2948-91	
Parameter			
Laboratory pH	8.77	8.63	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	540 J	610 J	900 / 1100 / 1800
Benzo(a)pyrene	730 J	810 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1300 J	1400 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	430 J	500 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	4.7	6.3	11.3 / 13
Barium, Total	22 J	37 J	1500
Beryllium, Total	0.54	0.66	22
Cadmium, Total	ND	ND	5.2
Calcium, Total	97000 J	21000 J	---
Chromium, Total	7.4	10	21
Iron, Total	17000 J-	20000 J-	15000 / 15900
Lead, Total	25 J	18 J	107
Manganese, Total	340 J-	470 J-	630 / 636
Mercury, Total	ND	0.013 J	0.89
Nickel, Total	15	23	100
Potassium, Total	1400 J+	1900 J+	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	37	46	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.18 J	0.18 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	0.002 J	0.005
Chromium, TCLP	ND	ND	0.1
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.7	0.95	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	0.92	0.2 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.023 J	0.037 J	0.05
Barium, SPLP	0.22 J	0.34 J	2
Beryllium, SPLP	0.0073	0.0085	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.089	0.11	0.1
Iron, SPLP	120 J-	160 J-	5
Lead, SPLP	0.095	0.11	0.0075
Manganese, SPLP	0.93	1.5	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.079	0.11	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	1.1 B	0.43 J	5

Summary Table of ISGS Site No. 2948-91
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.

^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

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

LINKS

Review your project
results through
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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
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916

Lab Sample ID: 500-108578-6

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/11/16 17:33	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/11/16 17:33	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/11/16 17:33	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/11/16 17:33	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/11/16 17:33	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/11/16 17:33	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/11/16 17:33	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/11/16 17:33	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/11/16 17:33	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/11/16 17:33	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/11/16 17:33	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/11/16 17:33	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/11/16 17:33	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/11/16 17:33	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/11/16 17:33	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/11/16 17:33	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/11/16 17:33	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/11/16 17:33	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/11/16 17:33	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/11/16 17:33	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/11/16 17:33	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/11/16 17:33	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/11/16 17:33	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/11/16 17:33	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/11/16 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/11/16 17:33	1
Dibromofluoromethane	110		75 - 120		03/11/16 17:33	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/11/16 17:33	1
Toluene-d8 (Surr)	105		75 - 122		03/11/16 17:33	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	☼	03/10/16 21:43	03/16/16 03:56	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916

Lab Sample ID: 500-108578-6

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Methylnaphthalene	21	J	38	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Acenaphthene	24	J	38	6.9	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Acenaphthylene	150		38	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Anthracene	100		38	6.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Benzo[a]anthracene	540	*	38	5.2	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Benzo[a]pyrene	730	*	38	7.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Benzo[b]fluoranthene	1300	*	38	8.3	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Benzo[g,h,i]perylene	390	*	38	12	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Benzo[k]fluoranthene	480	*	38	11	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Bis(2-ethylhexyl) phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Carbazole	<190		190	96	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Chrysene	680	*	38	10	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Fluoranthene	1200		38	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Fluorene	35	J	38	5.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916

Lab Sample ID: 500-108578-6

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	430	*	38	10	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Isophorone	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Naphthalene	10	J	38	5.9	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Phenanthrene	740		38	5.4	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Phenol	<190		190	85	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Pyrene	2000	*	38	7.6	ug/Kg	☼	03/10/16 21:43	03/16/16 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137				03/10/16 21:43	03/16/16 03:56	1
2-Fluorobiphenyl	76		25 - 119				03/10/16 21:43	03/16/16 03:56	1
2-Fluorophenol	83		25 - 110				03/10/16 21:43	03/16/16 03:56	1
Nitrobenzene-d5	67		25 - 115				03/10/16 21:43	03/16/16 03:56	1
Phenol-d5	85		31 - 110				03/10/16 21:43	03/16/16 03:56	1
Terphenyl-d14	163	X *	36 - 134				03/10/16 21:43	03/16/16 03:56	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		03/19/16 12:28	03/20/16 00:52	1
Barium	0.18	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 00:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 00:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 00:52	1
Manganese	0.70		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 11:10	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:52	1
Zinc	0.92		0.50	0.020	mg/L		03/19/16 12:28	03/21/16 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Barium	0.22	J	0.50	0.050	mg/L		03/18/16 15:13	03/19/16 17:36	1
Beryllium	0.0073		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 17:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 17:36	1
Chromium	0.089		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Cobalt	0.029		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Copper	0.061		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Iron	120		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 17:36	1
Lead	0.095		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 17:36	1
Manganese	0.93		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Nickel	0.079		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 17:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916

Lab Sample ID: 500-108578-6

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 86.4

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		03/18/16 15:13	03/19/16 17:36	1
Zinc	1.1	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 17:36	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	☼	03/16/16 08:57	03/18/16 03:05	1
Arsenic	4.7		0.56	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Barium	22		0.56	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Beryllium	0.54		0.22	0.048	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Calcium	97000	B	110	36	mg/Kg	☼	03/16/16 08:57	03/18/16 15:16	10
Chromium	7.4		0.56	0.096	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Cobalt	7.8		0.28	0.063	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Copper	7.6		0.56	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Iron	17000	B	11	4.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Lead	25		0.28	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Magnesium	34000	B	5.6	2.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Manganese	340		0.56	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Nickel	15		0.56	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Potassium	1400		28	4.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Selenium	<0.56		0.56	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Sodium	1200		56	7.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Vanadium	15		0.28	0.081	mg/Kg	☼	03/16/16 08:57	03/18/16 03:05	1
Zinc	37		1.1	0.35	mg/Kg	☼	03/16/16 08:57	03/18/16 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		03/19/16 18:45	03/21/16 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.5	ug/Kg	☼	03/17/16 13:00	03/18/16 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			03/12/16 12:11	1

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916D

Lab Sample ID: 500-108578-7

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 85.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/11/16 17:58	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/11/16 17:58	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/11/16 17:58	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/11/16 17:58	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/11/16 17:58	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/11/16 17:58	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/11/16 17:58	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/11/16 17:58	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/11/16 17:58	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/11/16 17:58	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/11/16 17:58	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/11/16 17:58	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/11/16 17:58	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/11/16 17:58	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/11/16 17:58	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/11/16 17:58	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/11/16 17:58	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/11/16 17:58	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/11/16 17:58	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/11/16 17:58	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/11/16 17:58	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/11/16 17:58	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/11/16 17:58	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/11/16 17:58	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/11/16 17:58	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/11/16 17:58	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/11/16 17:58	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/11/16 17:58	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/11/16 17:58	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/11/16 17:58	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/11/16 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/11/16 17:58	1
Dibromofluoromethane	111		75 - 120		03/11/16 17:58	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/11/16 17:58	1
Toluene-d8 (Surr)	106		75 - 122		03/11/16 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916D

Lab Sample ID: 500-108578-7

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Methylnaphthalene	23	J	37	6.9	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Acenaphthene	46		37	6.7	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Acenaphthylene	290		37	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Anthracene	150		37	6.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Benzo[a]anthracene	610	*	37	5.0	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Benzo[a]pyrene	810	*	37	7.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Benzo[b]fluoranthene	1400	*	37	8.1	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Benzo[g,h,i]perylene	430	*	37	12	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Benzo[k]fluoranthene	520	*	37	11	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Chrysene	740	*	37	10	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Fluoranthene	1100		37	6.9	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Fluorene	80		37	5.3	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916D

Lab Sample ID: 500-108578-7

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

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	500	*	37	9.7	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Naphthalene	8.5	J	37	5.7	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Phenanthrene	700		37	5.2	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Phenol	<190		190	83	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Pyrene	2000	*	37	7.4	ug/Kg	☼	03/10/16 21:43	03/16/16 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/10/16 21:43	03/16/16 04:25	1
2-Fluorobiphenyl	70		25 - 119				03/10/16 21:43	03/16/16 04:25	1
2-Fluorophenol	71		25 - 110				03/10/16 21:43	03/16/16 04:25	1
Nitrobenzene-d5	60		25 - 115				03/10/16 21:43	03/16/16 04:25	1
Phenol-d5	73		31 - 110				03/10/16 21:43	03/16/16 04:25	1
Terphenyl-d14	152	X *	36 - 134				03/10/16 21:43	03/16/16 04:25	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		03/19/16 12:28	03/20/16 00:57	1
Barium	0.18	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 00:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 00:57	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 00:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 00:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 00:57	1
Manganese	0.95		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Selenium	<0.050	^	0.050	0.020	mg/L		03/19/16 12:28	03/20/16 00:57	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 00:57	1
Zinc	0.20	J ^	0.50	0.020	mg/L		03/19/16 12:28	03/20/16 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Barium	0.34	J	0.50	0.050	mg/L		03/18/16 15:13	03/19/16 17:40	1
Beryllium	0.0085		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 17:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 17:40	1
Chromium	0.11		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Cobalt	0.041		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Copper	0.082		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Iron	160		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 17:40	1
Lead	0.11		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 17:40	1
Manganese	1.5		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Nickel	0.11		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 17:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F91-1(0-1)-030916D

Lab Sample ID: 500-108578-7

Date Collected: 03/09/16 14:08

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:13	03/19/16 17:40	1
Zinc	0.43	J B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 17:40	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	☼	03/16/16 08:57	03/18/16 03:10	1
Arsenic	6.3		0.57	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Barium	37		0.57	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Calcium	21000	B	11	3.6	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Chromium	10		0.57	0.097	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Cobalt	12		0.28	0.064	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Copper	11		0.57	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Iron	20000	B	11	4.4	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Lead	18		0.28	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Magnesium	13000	B	5.7	2.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Manganese	470		0.57	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Nickel	23		0.57	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Potassium	1900		28	4.6	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Sodium	1700		57	7.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Vanadium	14		0.28	0.083	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	1
Zinc	46		1.1	0.36	mg/Kg	☼	03/16/16 08:57	03/18/16 03:10	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		03/19/16 18:45	03/21/16 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	19	10	ug/Kg	☼	03/17/16 13:00	03/18/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/12/16 12:16	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

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		Parameter						
Project Location/State		Lab Project #		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
1		AB85-1(0-1)-030916	3-9-16	1302	2	S	X	X	X	X	X	
2		WL86-1(0-1)-030916		1319								
3		AL87-1(0-1)-030916		1330								
4		F88-1(0-1)-030916		1340								
5		AL90-1(0-1)-030916		1355								
6		F91-1(0-1)-030916		1408								
7		F91-1(0-1)-030916D		1408								
8		R89-1(0-1)-030916		1420								
9		WL92-1(0-1)-030916		1430								
10		WL92-2(0-1)-030916	3-9-16	1442	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days) _____
 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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</u> Time: <u>1645</u>

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 207
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 #: 500-108578

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	
Weston Solutions Inc		005 02056-014-040000		7 7 7 7 7								
Project Name		Lab Project #										
1DOT 040- IL Route 113												
Project Location/State		Lab Project #										
Brandwood, IL												
Sampler		Lab PM										
M. Doherty-Skubic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TELP/SUP Metals	PH	Comments
11		F93-1(0-1)-030916	3-9-16	1451	2 S	S	X	X	X	X	X	
12		F93-2(0-1)-030916	3-9-16	1500	2 S	S	X	X	X	X	X	
13		F93-3(0-1)-030916	3-9-16	1510	2 S	S	X	X	X	X	X	
LAST ITEM												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												

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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPH</u> Date: <u>3/9/16</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):
19700 block of W. IL 113, (ISGS Site No. 2948-92)

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: 41.230714144 Longitude: -88.082420643
(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: 41.230714144 Longitude: -88.082420643

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 WL92-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-92. SEE FIGURE 3-14 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: 500-108578-1.
ALSO SEE FIGURE 4-14 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. 2948-92
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	WL92-1(0-1)-030916	Soil Reference Concentrations
Sample Date	3/9/2016	
Location ID	WL92-1	
Depth	0 - 1	
Location Code	2948-92	
Parameter		
Laboratory pH	7.19	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	10 J	900 / 1100 / 1800
Benzo(a)pyrene	17 J	90 / 1300 / 2100
Benzo(b)fluoranthene	27 J	900 / 1500 / 2100
Total Metals (mg/kg)		
Arsenic, Total	1.3	11.3 / 13
Barium, Total	15	1500
Beryllium, Total	0.17 J	22
Cadmium, Total	0.1 J	5.2
Calcium, Total	25000 J	---
Chromium, Total	3.6	21
Iron, Total	3700 J-	15000 / 15900
Lead, Total	6.4 J	107
Manganese, Total	200 J-	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	4.8	100
Potassium, Total	340 J+	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	18	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.087 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	1.1	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	1	5
SPLP Metals (mg/l)		
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	2.6 J-	5
Lead, SPLP	ND	0.0075
Manganese, SPLP	0.13	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	ND	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.75 B	5

Summary Table of ISGS Site No. 2948-92
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.

^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

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

LINKS

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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: 500-108578-1

Client Sample ID: WL92-1(0-1)-030916

Lab Sample ID: 500-108578-9

Date Collected: 03/09/16 14:30

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/11/16 18:50	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 18:50	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/11/16 18:50	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 18:50	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 18:50	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 18:50	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/11/16 18:50	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/11/16 18:50	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/11/16 18:50	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 18:50	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 18:50	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/11/16 18:50	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 18:50	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/11/16 18:50	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/11/16 18:50	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 18:50	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/11/16 18:50	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/11/16 18:50	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 18:50	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/11/16 18:50	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 18:50	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/11/16 18:50	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 18:50	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/11/16 18:50	1
Dibromofluoromethane	109		75 - 120		03/11/16 18:50	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/11/16 18:50	1
Toluene-d8 (Surr)	105		75 - 122		03/11/16 18:50	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	☼	03/10/16 21:43	03/16/16 05:22	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: WL92-1(0-1)-030916

Lab Sample ID: 500-108578-9

Date Collected: 03/09/16 14:30

Matrix: Solid

Date Received: 03/09/16 16:45

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	<360		360	83	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Benzo[a]anthracene	10	J *	36	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Benzo[a]pyrene	17	J *	36	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Benzo[b]fluoranthene	27	J *	36	7.9	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Benzo[g,h,i]perylene	16	J *	36	12	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Butyl benzyl phthalate	<180 *		180	70	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Carbazole	<180		180	91	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Chrysene	13	J *	36	10	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Dibenz(a,h)anthracene	<36 *		36	7.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Fluoranthene	12	J	36	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: WL92-1(0-1)-030916

Lab Sample ID: 500-108578-9

Date Collected: 03/09/16 14:30

Matrix: Solid

Date Received: 03/09/16 16:45

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	<36	*	36	9.5	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Phenanthrene	6.9	J	36	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1
Pyrene	28	J *	36	7.3	ug/Kg	☼	03/10/16 21:43	03/16/16 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137	03/10/16 21:43	03/16/16 05:22	1
2-Fluorobiphenyl	77		25 - 119	03/10/16 21:43	03/16/16 05:22	1
2-Fluorophenol	81		25 - 110	03/10/16 21:43	03/16/16 05:22	1
Nitrobenzene-d5	65		25 - 115	03/10/16 21:43	03/16/16 05:22	1
Phenol-d5	83		31 - 110	03/10/16 21:43	03/16/16 05:22	1
Terphenyl-d14	174	X *	36 - 134	03/10/16 21:43	03/16/16 05:22	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		03/19/16 12:28	03/20/16 01:07	1
Barium	0.087	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 01:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 01:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 01:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 01:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 01:07	1
Manganese	1.1		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 11:29	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:07	1
Zinc	1.0		0.50	0.020	mg/L		03/19/16 12:28	03/21/16 11:29	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		03/18/16 15:13	03/19/16 18:04	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 18:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:04	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:04	1
Iron	2.6		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 18:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 18:04	1
Manganese	0.13		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 18:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: WL92-1(0-1)-030916

Lab Sample ID: 500-108578-9

Date Collected: 03/09/16 14:30

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:13	03/19/16 18:04	1
Zinc	0.75	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 18:04	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	☼	03/16/16 08:57	03/18/16 03:20	1
Arsenic	1.3		0.53	0.25	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Barium	15		0.53	0.098	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Beryllium	0.17	J	0.21	0.046	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Cadmium	0.10	J	0.11	0.031	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Calcium	25000	B	11	3.4	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Chromium	3.6		0.53	0.092	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Cobalt	2.1		0.27	0.060	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Copper	3.1		0.53	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Iron	3700	B	11	4.1	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Lead	6.4		0.27	0.13	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Magnesium	16000	B	5.3	2.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Manganese	200		0.53	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Nickel	4.8		0.53	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Potassium	340		27	4.4	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Sodium	440		53	7.1	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Vanadium	7.7		0.27	0.078	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	1
Zinc	18		1.1	0.34	mg/Kg	☼	03/16/16 08:57	03/18/16 03:20	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		03/19/16 18:45	03/21/16 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 15:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.4	ug/Kg	☼	03/17/16 13:00	03/18/16 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.19		0.200	0.200	SU			03/12/16 12:26	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

Client: <u>Weston Solutions</u>		Client Project #: <u>02056-014-040-0020</u>		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: <u>IDOT 040 -</u>		Lab Project #		Parameter								
Project Location/State		Lab Project #		Parameter								
Sampler: <u>M. Doherty-Skubic</u>		Lab PM: <u>D. WRIGHT</u>		Parameter								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
1		AB85-1(0-1)-030916	3-9-16	1302	2	S	X	X	X	X	X	
2		WL86-1(0-1)-030916		1319								
3		AL87-1(0-1)-030916		1330								
4		F88-1(0-1)-030916		1340								
5		AL90-1(0-1)-030916		1355								
6		F91-1(0-1)-030916		1408								
7		F91-1(0-1)-030916D		1408								
8		R89-1(0-1)-030916		1420								
9		WL92-1(0-1)-030916		1430								
10		WL92-2(0-1)-030916	3-9-16	1442	2	S	X	X	X	X	X	

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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</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. Balasubramanian
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 207
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 #: 500-108578

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	
Weston Solutions Inc		005 02056-014-040000		7 7		7 7 7						
Project Name		Lab Project #		Matrix		NOCS SVOCs TOTAL Metals TELP/SOP Metals PH						
1 DOT 040- IL Route 113												
Project Location/State		Lab Project #		Matrix		Comments						
Brandwood, IL												
Sampler		Lab PM		Matrix								
M. Doherty-Skubic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
11		F93-1(0-1)-030916	3-9-16	1451	2 S	S	X	X	X	X	X	
12		F93-2(0-1)-030916	3-9-16	1500	2 S	S	X	X	X	X	X	
13		F93-3(0-1)-030916	3-9-16	1510	2 S	S	X	X	X	X	X	
LAST ITEM											MDS	
											MDS	
											MDS	
											MDS	
											MDS	
											MDS	
											MDS	

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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPH</u> Date: <u>3/9/16</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):
19345 W. IL 113, (ISGS Site No. 2948-93)

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: 41.229443574 Longitude: -88.077840091
(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: 41.229443574 Longitude: -88.077840091Uncontaminated 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 F93-1 THROUGH F93-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-93. SEE FIGURE 3-14 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 IDs: 500-108578-1 AND 500-108665-1.
ALSO SEE FIGURE 4-14 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

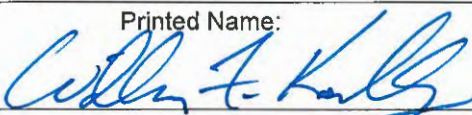
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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. 2948-93
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	F93-1(0-1)-030916	F93-2(0-1)-030916	F93-3(0-1)-030916	F93-4(0-1)-031016	F93-4(0-1)-031016D	F93-5(0-1)-031016	F93-6(0-1)-031016	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	F93-1	F93-2	F93-3	F93-4	F93-4	F93-5	F93-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-93	2948-93	2948-93	2948-93	2948-93	2948-93	2948-93	
Parameter								
Laboratory pH	7.88	7.81	7.92	7.71	7.74	7.99	7.67	<6.25,>9.0
VOCs (ug/kg)	None Detected							
SVOCs (ug/kg)								
Benzo(a)anthracene	23 J	19 J	46 J	ND	ND	220 J	280 J	900 / 1100 / 1800
Benzo(a)pyrene	34 J	ND	73 J	ND	ND	230 J	320 J	90 / 1300 / 2100
Benzo(b)fluoranthene	39 J	37 J	92 J	ND	ND	360 J	500 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	48 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	ND	30 J	ND	ND	110 J	210 J	900 / 900 / 1600
Total Metals (mg/kg)								
Arsenic, Total	1.8	1	2	1	1.1	1.2	1.3	11.3 / 13
Barium, Total	17	15	13	12	19	8.6	15	1500
Beryllium, Total	0.12 J	0.17 J	0.21	0.14 J	0.11 J	0.19 J	0.22	22
Cadmium, Total	0.15	0.11	0.12	ND	ND	0.044 J	0.068 J	5.2
Calcium, Total	20000 J	16000 J	48000 J	16000 J	18000 J	11000 J	140000 J	---
Chromium, Total	3.6	2.8	3.3	3.3	3.2	3.7	3.4	21
Iron, Total	4500 J-	3800 J-	5700 J-	3400 J	3300 J	4200 J	4500 J	15000 / 15900
Lead, Total	6.4 J	8 J	18 J	4.9	5	6.4	25	107
Manganese, Total	260 J-	97 J-	190 J-	83	85	98	220	630 / 636
Mercury, Total	ND	ND	ND	ND	ND	ND	ND	0.89
Nickel, Total	4	3.5	5.6	2.9	2.9	4.3	4.8	100
Potassium, Total	230 J+	300 J+	430 J+	190 J+	210 J+	240 J+	630 J+	---
Selenium, Total	ND	0.36 J	ND	ND	0.31 J	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	15	14	22	11	11	15	36	5100
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.15 J	0.17 J	0.11 J	0.13 J	0.12 J	0.065 J	0.12 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	0.0028 J	0.0023 J	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Iron, TCLP	ND	ND	ND	0.77	0.83	0.37 J	0.33 J	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0079	0.0075
Manganese, TCLP	0.72	1.3	1.2	0.85	0.84	0.92	1.5	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	0.013 J	ND	ND	ND	0.014 J	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	0.44 J	1.3	0.37 J	0.38 J	0.61	1.6	0.67	5

Summary Table of ISGS Site No. 2948-93
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	F93-1(0-1)-030916	F93-2(0-1)-030916	F93-3(0-1)-030916	F93-4(0-1)-031016	F93-4(0-1)-031016D	F93-5(0-1)-031016	F93-6(0-1)-031016	Soil Reference Concentrations
Sample Date	3/9/2016	3/9/2016	3/9/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	F93-1	F93-2	F93-3	F93-4	F93-4	F93-5	F93-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-93	2948-93	2948-93	2948-93	2948-93	2948-93	2948-93	
Parameter								
SPLP Metals (mg/l)								
Arsenic, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, SPLP	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	0.1
Iron, SPLP	5.3 J-	3.8 J-	4.7 J-	2.3 J+	2.4 J+	4.8 J+	0.8 J+	5
Lead, SPLP	0.01	0.014	0.021	ND	ND	0.0095	ND	0.0075
Manganese, SPLP	0.13	0.12	0.097	0.074	0.076	0.13	ND	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	ND	ND	ND	ND	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	1.6 B	2.2 B	ND	ND	ND	ND	ND	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108578-1
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:
3/21/2016 5:16:01 PM

Richard Wright, Senior Project Manager
(708)534-5200
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
- 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: 500-108578-1

Client Sample ID: F93-1(0-1)-030916

Lab Sample ID: 500-108578-11

Date Collected: 03/09/16 14:51

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/11/16 19:42	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 19:42	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/11/16 19:42	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 19:42	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 19:42	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 19:42	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/11/16 19:42	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/11/16 19:42	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/11/16 19:42	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 19:42	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 19:42	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/11/16 19:42	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 19:42	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/11/16 19:42	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/11/16 19:42	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 19:42	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/11/16 19:42	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/11/16 19:42	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 19:42	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/11/16 19:42	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 19:42	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/11/16 19:42	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 19:42	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		03/11/16 19:42	1
Dibromofluoromethane	107		75 - 120		03/11/16 19:42	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/11/16 19:42	1
Toluene-d8 (Surr)	106		75 - 122		03/11/16 19:42	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	39	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-1(0-1)-030916

Lab Sample ID: 500-108578-11

Date Collected: 03/09/16 14:51

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Benzo[a]anthracene	23	J *	36	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Benzo[a]pyrene	34	J *	36	7.0	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Benzo[b]fluoranthene	39	*	36	7.9	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Benzo[g,h,i]perylene	14	J *	36	12	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Benzo[k]fluoranthene	20	J *	36	11	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Carbazole	<180		180	91	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Chrysene	24	J *	36	9.9	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Fluoranthene	27	J	36	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-1(0-1)-030916

Lab Sample ID: 500-108578-11

Date Collected: 03/09/16 14:51

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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	☼	03/10/16 21:43	03/16/16 05:51	1
Isophorone	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Phenanthrene	14	J	36	5.1	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Phenol	<180		180	81	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Pyrene	58	*	36	7.2	ug/Kg	☼	03/10/16 21:43	03/16/16 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/10/16 21:43	03/16/16 05:51	1
2-Fluorobiphenyl	67		25 - 119				03/10/16 21:43	03/16/16 05:51	1
2-Fluorophenol	73		25 - 110				03/10/16 21:43	03/16/16 05:51	1
Nitrobenzene-d5	58		25 - 115				03/10/16 21:43	03/16/16 05:51	1
Phenol-d5	70		31 - 110				03/10/16 21:43	03/16/16 05:51	1
Terphenyl-d14	158	X *	36 - 134				03/10/16 21:43	03/16/16 05:51	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		03/19/16 12:28	03/20/16 01:17	1
Barium	0.15	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 01:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 01:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 01:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 01:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 01:17	1
Manganese	0.72		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/21/16 16:12	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:17	1
Zinc	0.44	J ^	0.50	0.020	mg/L		03/19/16 12:28	03/20/16 01:17	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		03/18/16 15:13	03/19/16 18:12	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:12	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:12	1
Iron	5.3		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 18:12	1
Lead	0.010		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 18:12	1
Manganese	0.13		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 18:12	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-1(0-1)-030916

Lab Sample ID: 500-108578-11

Date Collected: 03/09/16 14:51

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.0

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		03/18/16 15:13	03/19/16 18:12	1
Zinc	1.6	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 18:12	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	☼	03/16/16 08:57	03/18/16 03:30	1
Arsenic	1.8		0.55	0.25	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Barium	17		0.55	0.10	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Beryllium	0.12	J	0.22	0.048	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Cadmium	0.15		0.11	0.032	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Calcium	20000	B	11	3.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Chromium	3.6		0.55	0.094	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Cobalt	1.7		0.27	0.062	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Copper	2.8		0.55	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Iron	4500	B	11	4.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Lead	6.4		0.27	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Magnesium	11000	B	5.5	2.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Manganese	260		0.55	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Nickel	4.0		0.55	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Potassium	230		27	4.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Sodium	310		55	7.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Vanadium	5.6		0.27	0.080	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	1
Zinc	15		1.1	0.35	mg/Kg	☼	03/16/16 08:57	03/18/16 03:30	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		03/19/16 18:45	03/21/16 10:20	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		03/18/16 17:45	03/19/16 16:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/17/16 13:00	03/18/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			03/12/16 12:36	1

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-2(0-1)-030916

Lab Sample ID: 500-108578-12

Date Collected: 03/09/16 15:00

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/11/16 20:08	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 20:08	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/11/16 20:08	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 20:08	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 20:08	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 20:08	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/11/16 20:08	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/11/16 20:08	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/11/16 20:08	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/11/16 20:08	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/11/16 20:08	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/11/16 20:08	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 20:08	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/11/16 20:08	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/11/16 20:08	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/11/16 20:08	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/11/16 20:08	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/11/16 20:08	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/11/16 20:08	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 20:08	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/11/16 20:08	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/11/16 20:08	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/11/16 20:08	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/11/16 20:08	1
Dibromofluoromethane	109		75 - 120		03/11/16 20:08	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/11/16 20:08	1
Toluene-d8 (Surr)	107		75 - 122		03/11/16 20:08	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	38	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-2(0-1)-030916

Lab Sample ID: 500-108578-12

Date Collected: 03/09/16 15:00

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.9

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	☼	03/10/16 21:43	03/16/16 06:20	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
3,3'-Dichlorobenzidine	<180 *		180	49	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Benzo[a]anthracene	19 J *		35	4.7	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Benzo[a]pyrene	<35 *		35	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Benzo[b]fluoranthene	37 *		35	7.6	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Benzo[g,h,i]perylene	21 J *		35	11	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Benzo[k]fluoranthene	15 J *		35	10	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Bis(2-ethylhexyl) phthalate	<180 *		180	64	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Butyl benzyl phthalate	<180 *		180	67	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Chrysene	23 J *		35	9.6	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Dibenz(a,h)anthracene	<35 *		35	6.8	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Fluoranthene	26 J		35	6.5	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-2(0-1)-030916

Lab Sample ID: 500-108578-12

Date Collected: 03/09/16 15:00

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.9

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 21:43	03/16/16 06:20	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Phenanthrene	25	J	35	4.9	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Pyrene	86	*	35	7.0	ug/Kg	☼	03/10/16 21:43	03/16/16 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/10/16 21:43	03/16/16 06:20	1
2-Fluorobiphenyl	67		25 - 119				03/10/16 21:43	03/16/16 06:20	1
2-Fluorophenol	68		25 - 110				03/10/16 21:43	03/16/16 06:20	1
Nitrobenzene-d5	53		25 - 115				03/10/16 21:43	03/16/16 06:20	1
Phenol-d5	69		31 - 110				03/10/16 21:43	03/16/16 06:20	1
Terphenyl-d14	155	X *	36 - 134				03/10/16 21:43	03/16/16 06:20	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		03/19/16 12:28	03/20/16 01:31	1
Barium	0.17	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 01:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 01:31	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 01:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 01:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 01:31	1
Manganese	1.3		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/20/16 01:31	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:31	1
Zinc	1.3		0.50	0.020	mg/L		03/19/16 12:28	03/21/16 11:40	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		03/18/16 15:13	03/19/16 18:21	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 18:21	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:21	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:21	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:21	1
Iron	3.8		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 18:21	1
Lead	0.014		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 18:21	1
Manganese	0.12		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:21	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 18:21	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-2(0-1)-030916

Lab Sample ID: 500-108578-12

Date Collected: 03/09/16 15:00

Matrix: Solid

Date Received: 03/09/16 16:45

Percent Solids: 91.9

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		03/18/16 15:13	03/19/16 18:21	1
Zinc	2.2	B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 18:21	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	☼	03/16/16 08:57	03/18/16 03:35	1
Arsenic	1.0		0.54	0.25	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Barium	15		0.54	0.099	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Beryllium	0.17	J	0.22	0.047	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Cadmium	0.11		0.11	0.031	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Calcium	16000	B	11	3.5	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Chromium	2.8		0.54	0.093	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Cobalt	1.3		0.27	0.061	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Copper	2.2		0.54	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Iron	3800	B	11	4.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Lead	8.0		0.27	0.13	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Magnesium	9500	B	5.4	2.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Manganese	97		0.54	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Nickel	3.5		0.54	0.15	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Potassium	300		27	4.4	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Selenium	0.36	J	0.54	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Sodium	240		54	7.1	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Vanadium	5.5		0.27	0.079	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1
Zinc	14		1.1	0.34	mg/Kg	☼	03/16/16 08:57	03/18/16 03:35	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 10:22	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		03/18/16 17:45	03/19/16 16:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.4	ug/Kg	☼	03/17/16 13:00	03/18/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.81		0.200	0.200	SU			03/12/16 12:40	1

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-3(0-1)-030916

Lab Sample ID: 500-108578-13

Date Collected: 03/09/16 15:10

Matrix: Solid

Date Received: 03/09/16 16:45

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	☼		03/11/16 20:34	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/11/16 20:34	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/11/16 20:34	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/11/16 20:34	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/11/16 20:34	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/11/16 20:34	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/11/16 20:34	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/11/16 20:34	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/11/16 20:34	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/11/16 20:34	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/11/16 20:34	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/11/16 20:34	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/11/16 20:34	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
2-Hexanone	<5.3		5.3	1.7	ug/Kg	☼		03/11/16 20:34	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/11/16 20:34	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/11/16 20:34	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
Styrene	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.85	ug/Kg	☼		03/11/16 20:34	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/11/16 20:34	1
Toluene	<5.3		5.3	1.9	ug/Kg	☼		03/11/16 20:34	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/11/16 20:34	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/11/16 20:34	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/11/16 20:34	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/11/16 20:34	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/11/16 20:34	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/11/16 20:34	1
Dibromofluoromethane	108		75 - 120		03/11/16 20:34	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/11/16 20:34	1
Toluene-d8 (Surr)	104		75 - 122		03/11/16 20:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-3(0-1)-030916

Lab Sample ID: 500-108578-13

Date Collected: 03/09/16 15:10

Matrix: Solid

Date Received: 03/09/16 16:45

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	<330		330	77	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,4,6-Trichlorophenol	<330		330	120	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,4-Dichlorophenol	<330		330	80	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Methylnaphthalene	<33		33	6.2	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Methylphenol	<170		170	54	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
3,3'-Dichlorobenzidine	<170 *		170	47	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Acenaphthylene	11 J		33	4.4	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Anthracene	13 J		33	5.6	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Benzo[a]anthracene	46 *		33	4.5	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Benzo[a]pyrene	73 *		33	6.5	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Benzo[b]fluoranthene	92 *		33	7.2	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Benzo[g,h,i]perylene	38 *		33	11	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Benzo[k]fluoranthene	37 *		33	9.9	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Bis(2-ethylhexyl) phthalate	<170 *		170	61	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Butyl benzyl phthalate	<170 *		170	64	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Carbazole	<170		170	84	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Chrysene	59 *		33	9.2	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Dibenz(a,h)anthracene	<33 *		33	6.5	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Dibenzofuran	<170		170	39	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Fluoranthene	73		33	6.2	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Fluorene	<33		33	4.7	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Hexachloroethane	<170		170	51	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-3(0-1)-030916

Lab Sample ID: 500-108578-13

Date Collected: 03/09/16 15:10

Matrix: Solid

Date Received: 03/09/16 16:45

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	30	J *	33	8.7	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Isophorone	<170		170	38	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Naphthalene	<33		33	5.2	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Nitrobenzene	<33		33	8.4	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Phenanthrene	53		33	4.7	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Phenol	<170		170	75	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Pyrene	180	*	33	6.7	ug/Kg	☼	03/10/16 21:43	03/17/16 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137				03/10/16 21:43	03/17/16 02:07	1
2-Fluorobiphenyl	86		25 - 119				03/10/16 21:43	03/17/16 02:07	1
2-Fluorophenol	84		25 - 110				03/10/16 21:43	03/17/16 02:07	1
Nitrobenzene-d5	64		25 - 115				03/10/16 21:43	03/17/16 02:07	1
Phenol-d5	88		31 - 110				03/10/16 21:43	03/17/16 02:07	1
Terphenyl-d14	195	X *	36 - 134				03/10/16 21:43	03/17/16 02:07	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		03/19/16 12:28	03/20/16 01:36	1
Barium	0.11	J	0.50	0.050	mg/L		03/19/16 12:28	03/20/16 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/16 12:28	03/20/16 01:36	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		03/19/16 12:28	03/20/16 01:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Copper	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Iron	<0.40		0.40	0.20	mg/L		03/19/16 12:28	03/20/16 01:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/16 12:28	03/20/16 01:36	1
Manganese	1.2		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Nickel	0.013	J	0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/16 12:28	03/20/16 01:36	1
Silver	<0.025		0.025	0.010	mg/L		03/19/16 12:28	03/20/16 01:36	1
Zinc	0.37	J ^	0.50	0.020	mg/L		03/19/16 12:28	03/20/16 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Barium	<0.50		0.50	0.050	mg/L		03/18/16 15:13	03/19/16 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 15:13	03/19/16 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/18/16 15:13	03/19/16 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Copper	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Iron	4.7		0.40	0.20	mg/L		03/18/16 15:13	03/19/16 18:25	1
Lead	0.021		0.0075	0.0075	mg/L		03/18/16 15:13	03/19/16 18:25	1
Manganese	0.097		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 15:13	03/19/16 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 15:13	03/19/16 18:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108578-1

Client Sample ID: F93-3(0-1)-030916

Lab Sample ID: 500-108578-13

Date Collected: 03/09/16 15:10

Matrix: Solid

Date Received: 03/09/16 16:45

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		03/18/16 15:13	03/19/16 18:25	1
Zinc	0.099	J B	0.50	0.020	mg/L		03/18/16 15:13	03/19/16 18:25	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	☼	03/16/16 08:57	03/18/16 03:39	1
Arsenic	2.0		0.53	0.25	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Barium	13		0.53	0.097	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Beryllium	0.21		0.21	0.046	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Cadmium	0.12		0.11	0.031	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Calcium	48000	B	110	34	mg/Kg	☼	03/16/16 08:57	03/18/16 15:20	10
Chromium	3.3		0.53	0.091	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Cobalt	2.2		0.27	0.060	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Copper	5.4		0.53	0.12	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Iron	5700	B	11	4.1	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Lead	18		0.27	0.13	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Magnesium	26000	B	5.3	2.2	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Manganese	190		0.53	0.11	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Nickel	5.6		0.53	0.14	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Potassium	430		27	4.3	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Sodium	380		53	7.0	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Vanadium	6.6		0.27	0.078	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	1
Zinc	22		1.1	0.34	mg/Kg	☼	03/16/16 08:57	03/18/16 03:39	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		03/19/16 18:45	03/21/16 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 16:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.3	ug/Kg	☼	03/17/16 13:00	03/18/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			03/12/16 12:45	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108578-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108578-1

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
Phone: 708.534.5200 Fax: 708.534.5200



500-108578 COC

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

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

Chain of Custody Record

Lab Job #: 500-108578
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 34

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		Parameter						
Project Location/State		Lab Project #		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SLP Metals	PH	Comments
1		AB85-1(0-1)-030916	3-9-16	1302	2	S	X	X	X	X	X	
2		WL86-1(0-1)-030916		1319								
3		AL87-1(0-1)-030916		1330								
4		F88-1(0-1)-030916		1340								
5		AL90-1(0-1)-030916		1355								
6		F91-1(0-1)-030916		1408								
7		F91-1(0-1)-030916D		1408								
8		R89-1(0-1)-030916		1420								
9		WL92-1(0-1)-030916		1430								
10		WL92-2(0-1)-030916	3-9-16	1442	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days) _____
 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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>3/9/16</u> Time: <u>1645</u>

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston Solutions Inc
Address: 300 Plaza Circle, Ste 207
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 #: 500-108578

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	
Weston Solutions Inc		005 02056-014-040-000		7 7 7 7 7								
Project Name		Lab Project #										
1 DOT 040- IL Route 113												
Project Location/State		Lab Project #										
Brandwood, IL												
Sampler		Lab PM										
M. Doherty-Skubic		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL Metals	TELP/SUP Metals	PH	Comments
11		F93-1(0-1)-030916	3-9-16	1451	2 S	S	X	X	X	X	X	
12		F93-2(0-1)-030916	3-9-16	1500	2 S	S	X	X	X	X	X	
13		F93-3(0-1)-030916	3-9-16	1510	2 S	S	X	X	X	X	X	
LAST ITEM												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												
_____ MDS												

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>3-9-2016</u> Time: <u>1533</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1533</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/9/16</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPH</u> Date: <u>3/9/16</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: _____

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: 500-108665-1
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:
3/23/2016 5:05:38 PM

Richard Wright, Senior Project Manager
(708)534-5200
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
- 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: 500-108665-1

Client Sample ID: F93-4(0-1)-031016

Lab Sample ID: 500-108665-1

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 19:19	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:19	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/14/16 19:19	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:19	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:19	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:19	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/14/16 19:19	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:19	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 19:19	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/14/16 19:19	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:19	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 19:19	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:19	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 19:19	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/14/16 19:19	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 19:19	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/14/16 19:19	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:19	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 19:19	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 19:19	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:19	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 19:19	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:19	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:19	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/14/16 19:19	1
Dibromofluoromethane	112		75 - 120		03/14/16 19:19	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/14/16 19:19	1
Toluene-d8 (Surr)	104		75 - 122		03/14/16 19:19	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	☼	03/15/16 06:55	03/21/16 18:42	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016

Lab Sample ID: 500-108665-1

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.6

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	☼	03/15/16 06:55	03/21/16 18:42	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,4-Dimethylphenol	<350	F1 F2	350	130	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,4-Dinitrophenol	<710	F1	710	620	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,4-Dinitrotoluene	<180	F1	180	56	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
2-Nitrophenol	<350	F1	350	83	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4,6-Dinitro-2-methylphenol	<710	F1	710	280	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Chloroaniline	<710	F2	710	160	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Benzo[a]pyrene	<35		35	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Benzo[b]fluoranthene	<35		35	7.5	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Bis(2-chloroethyl)ether	<180	F2	180	52	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Bis(2-ethylhexyl) phthalate	<180	F1	180	64	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Butyl benzyl phthalate	<180	F1	180	67	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Carbazole	<180		180	87	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Chrysene	<35		35	9.5	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Dibenz(a,h)anthracene	<35		35	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Di-n-octyl phthalate	<180	F1	180	57	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Fluoranthene	<35		35	6.5	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Hexachlorocyclopentadiene	<710	F1	710	200	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Hexachloroethane	<180	F1	180	53	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016

Lab Sample ID: 500-108665-1

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.6

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	<35		35	9.1	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Isophorone	<180		180	39	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
N-Nitrosodiphenylamine	<180	F1	180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Pentachlorophenol	<710	F1	710	560	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Phenol	<180		180	78	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1
Pyrene	<35	F1	35	6.9	ug/Kg	☼	03/15/16 06:55	03/21/16 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		35 - 137	03/15/16 06:55	03/21/16 18:42	1
2-Fluorobiphenyl	88		25 - 119	03/15/16 06:55	03/21/16 18:42	1
2-Fluorophenol	83		25 - 110	03/15/16 06:55	03/21/16 18:42	1
Nitrobenzene-d5	80		25 - 115	03/15/16 06:55	03/21/16 18:42	1
Phenol-d5	85		31 - 110	03/15/16 06:55	03/21/16 18:42	1
Terphenyl-d14	96		36 - 134	03/15/16 06:55	03/21/16 18:42	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		03/21/16 09:00	03/22/16 20:23	1
Barium	0.13	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 20:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Cobalt	0.013	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Iron	0.77		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 20:23	1
Manganese	0.85		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 20:23	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:23	1
Zinc	0.38	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 20:23	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		03/22/16 08:10	03/23/16 00:14	1
Barium	<0.50		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:54	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:14	1
Iron	2.3		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:54	1
Manganese	0.074		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016

Lab Sample ID: 500-108665-1

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.6

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		03/22/16 08:10	03/23/16 00:14	1
Zinc	0.20	J ^ B *	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 00:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1	1.0	0.22	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Arsenic	1.0		0.52	0.24	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Barium	12		0.52	0.096	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Beryllium	0.14	J	0.21	0.045	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Calcium	16000	B F2	10	3.4	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Chromium	3.3		2.6	0.090	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Cobalt	1.4		0.26	0.059	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Copper	2.0		0.52	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Iron	3400		10	4.0	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Lead	4.9		0.26	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Magnesium	10000	B ^ F2	5.2	2.1	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Manganese	83		0.52	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Nickel	2.9		0.52	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Potassium	190	F1	26	4.3	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Sodium	350		52	6.9	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Vanadium	5.2		0.26	0.076	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	1
Zinc	11		1.0	0.33	mg/Kg	☼	03/17/16 08:44	03/22/16 07:28	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		03/20/16 18:00	03/22/16 10:00	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		03/21/16 18:30	03/22/16 13:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.4	ug/Kg	☼	03/19/16 15:30	03/22/16 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.200	0.200	SU			03/15/16 13:28	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016D

Lab Sample ID: 500-108665-2

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 19:45	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:45	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/14/16 19:45	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:45	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:45	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:45	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/14/16 19:45	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 19:45	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 19:45	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/14/16 19:45	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 19:45	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 19:45	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:45	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 19:45	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/14/16 19:45	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 19:45	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/14/16 19:45	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 19:45	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 19:45	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:45	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 19:45	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 19:45	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 19:45	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/14/16 19:45	1
Dibromofluoromethane	110		75 - 120		03/14/16 19:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/14/16 19:45	1
Toluene-d8 (Surr)	103		75 - 122		03/14/16 19:45	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	☼	03/15/16 06:55	03/21/16 19:11	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016D

Lab Sample ID: 500-108665-2

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.7

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	79	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
3,3'-Dichlorobenzidine	<170 *		170	49	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Acenaphthene	<35		35	6.2	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Benzo[a]pyrene	<35		35	6.7	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Benzo[b]fluoranthene	<35		35	7.5	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Carbazole	<170		170	87	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Chrysene	<35		35	9.5	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Dibenz(a,h)anthracene	<35		35	6.7	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Fluoranthene	<35		35	6.4	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016D

Lab Sample ID: 500-108665-2

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.7

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	9.0	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Isophorone	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Naphthalene	<35		35	5.3	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Phenanthrene	<35		35	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Phenol	<170		170	77	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Pyrene	<35		35	6.9	ug/Kg	☼	03/15/16 06:55	03/21/16 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/15/16 06:55	03/21/16 19:11	1
2-Fluorobiphenyl	82		25 - 119				03/15/16 06:55	03/21/16 19:11	1
2-Fluorophenol	80		25 - 110				03/15/16 06:55	03/21/16 19:11	1
Nitrobenzene-d5	78		25 - 115				03/15/16 06:55	03/21/16 19:11	1
Phenol-d5	81		31 - 110				03/15/16 06:55	03/21/16 19:11	1
Terphenyl-d14	86		36 - 134				03/15/16 06:55	03/21/16 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		03/21/16 09:00	03/22/16 20:53	1
Barium	0.12	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 20:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 20:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 20:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Cobalt	0.013	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Copper	0.011	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Iron	0.83		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 20:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 20:53	1
Manganese	0.84		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 20:53	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:53	1
Zinc	0.61		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 20:53	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		03/22/16 08:10	03/23/16 00:18	1
Barium	<0.50		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 14:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:40	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:18	1
Iron	2.4		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 14:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 14:40	1
Manganese	0.076		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-4(0-1)-031016D

Lab Sample ID: 500-108665-2

Date Collected: 03/10/16 08:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.7

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		03/22/16 08:10	03/23/16 00:18	1
Zinc	0.16	J ^ B *	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 00:18	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	☼	03/17/16 08:44	03/22/16 07:57	1
Arsenic	1.1		0.53	0.24	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Barium	19		0.53	0.097	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Beryllium	0.11	J	0.21	0.046	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Calcium	18000	B ^	11	3.4	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Chromium	3.2		2.6	0.091	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Cobalt	1.4		0.26	0.060	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Copper	1.9		0.53	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Iron	3300		11	4.1	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Lead	5.0		0.26	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Magnesium	11000	B ^	5.3	2.1	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Manganese	85		0.53	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Nickel	2.9		0.53	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Potassium	210		26	4.3	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Selenium	0.31	J	0.53	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Sodium	340		53	7.0	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Vanadium	5.5		0.26	0.077	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	1
Zinc	11		1.1	0.33	mg/Kg	☼	03/17/16 08:44	03/22/16 07:57	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		03/20/16 18:00	03/22/16 10:06	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		03/21/16 18:30	03/22/16 13:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.8	ug/Kg	☼	03/19/16 15:30	03/22/16 20:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			03/15/16 13:32	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-5(0-1)-031016

Lab Sample ID: 500-108665-3

Date Collected: 03/10/16 08:25

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/14/16 22:23	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 22:23	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/14/16 22:23	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 22:23	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 22:23	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/14/16 22:23	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 22:23	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 22:23	1
Dibromochloromethane	<5.3		5.3	0.62	ug/Kg	☼		03/14/16 22:23	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/14/16 22:23	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 22:23	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 22:23	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 22:23	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
2-Hexanone	<5.3		5.3	1.7	ug/Kg	☼		03/14/16 22:23	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/14/16 22:23	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 22:23	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
Styrene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
1,1,2,2-Tetrachloroethane	<5.3 *		5.3	0.85	ug/Kg	☼		03/14/16 22:23	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 22:23	1
Toluene	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 22:23	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 22:23	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 22:23	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 22:23	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 22:23	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 22:23	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/14/16 22:23	1
Dibromofluoromethane	109		75 - 120		03/14/16 22:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/14/16 22:23	1
Toluene-d8 (Surr)	104		75 - 122		03/14/16 22:23	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	☼	03/15/16 06:55	03/21/16 21:37	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-5(0-1)-031016

Lab Sample ID: 500-108665-3

Date Collected: 03/10/16 08:25

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.5

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	☼	03/15/16 06:55	03/21/16 21:37	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,4-Dinitrophenol	<690		690	610	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
3,3'-Dichlorobenzidine	<170 *		170	48	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Acenaphthylene	25 J		34	4.5	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Anthracene	45		34	5.8	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Benzo[a]anthracene	220 *		34	4.6	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Benzo[a]pyrene	230 *		34	6.7	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Benzo[b]fluoranthene	360 *		34	7.4	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Benzo[g,h,i]perylene	110 *		34	11	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Benzo[k]fluoranthene	160 *		34	10	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Bis(2-ethylhexyl) phthalate	<170 *		170	63	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Butyl benzyl phthalate	<170 *		170	66	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Carbazole	<170		170	86	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Chrysene	250 *		34	9.4	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Dibenz(a,h)anthracene	<34 *		34	6.7	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Fluoranthene	300		34	6.4	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Fluorene	6.3 J		34	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Hexachlorobenzene	<69		69	8.0	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-5(0-1)-031016

Lab Sample ID: 500-108665-3

Date Collected: 03/10/16 08:25

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.5

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	110	*	34	8.9	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Isophorone	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Phenanthrene	160		34	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Phenol	<170		170	77	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Pyrene	750	*	34	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		35 - 137				03/15/16 06:55	03/21/16 21:37	1
2-Fluorobiphenyl	82		25 - 119				03/15/16 06:55	03/21/16 21:37	1
2-Fluorophenol	79		25 - 110				03/15/16 06:55	03/21/16 21:37	1
Nitrobenzene-d5	75		25 - 115				03/15/16 06:55	03/21/16 21:37	1
Phenol-d5	76		31 - 110				03/15/16 06:55	03/21/16 21:37	1
Terphenyl-d14	162	X *	36 - 134				03/15/16 06:55	03/21/16 21:37	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		03/21/16 09:00	03/22/16 20:58	1
Barium	0.065	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Iron	0.37	J	0.40	0.20	mg/L		03/21/16 09:00	03/22/16 20:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 20:58	1
Manganese	0.92		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 20:58	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 20:58	1
Zinc	1.6		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 20:58	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		03/22/16 08:10	03/23/16 00:22	1
Barium	<0.50		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 12:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:49	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:22	1
Iron	4.8		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 12:49	1
Lead	0.0095		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 12:49	1
Manganese	0.13		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-5(0-1)-031016

Lab Sample ID: 500-108665-3

Date Collected: 03/10/16 08:25

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.5

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		03/22/16 08:10	03/23/16 00:22	1
Zinc	0.41	J B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 12:49	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	☼	03/17/16 08:44	03/22/16 08:02	1
Arsenic	1.2		0.50	0.23	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Barium	8.6		0.50	0.092	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Beryllium	0.19	J	0.20	0.044	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Cadmium	0.044	J	0.10	0.029	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Calcium	11000	B	10	3.3	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Chromium	3.7		2.5	0.087	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Cobalt	1.6		0.25	0.057	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Copper	2.7		0.50	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Iron	4200		10	3.9	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Lead	6.4		0.25	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Magnesium	6700	B ^	5.0	2.0	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Manganese	98		0.50	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Nickel	4.3		0.50	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Potassium	240		25	4.1	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Sodium	520		50	6.7	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Vanadium	7.0		0.25	0.074	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1
Zinc	15		1.0	0.32	mg/Kg	☼	03/17/16 08:44	03/22/16 08:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/22/16 10:12	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		03/21/16 18:30	03/22/16 14:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/19/16 15:30	03/22/16 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			03/15/16 13:37	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-6(0-1)-031016

Lab Sample ID: 500-108665-4

Date Collected: 03/10/16 08:35

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/14/16 22:49	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 22:49	1
Bromodichloromethane	<5.4		5.4	0.90	ug/Kg	☼		03/14/16 22:49	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 22:49	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 22:49	1
Carbon tetrachloride	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
Chloroethane	<5.4		5.4	2.2	ug/Kg	☼		03/14/16 22:49	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 22:49	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 22:49	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 22:49	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	☼		03/14/16 22:49	1
1,1-Dichloroethene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 22:49	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 22:49	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 22:49	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 22:49	1
Methylene Chloride	<5.4		5.4	4.0	ug/Kg	☼		03/14/16 22:49	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 22:49	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
1,1,2,2-Tetrachloroethane	<5.4 *		5.4	0.85	ug/Kg	☼		03/14/16 22:49	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 22:49	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 22:49	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 22:49	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 22:49	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 22:49	1
Trichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 22:49	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 22:49	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/14/16 22:49	1
Dibromofluoromethane	110		75 - 120		03/14/16 22:49	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/14/16 22:49	1
Toluene-d8 (Surr)	102		75 - 122		03/14/16 22:49	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	☼	03/15/16 06:55	03/21/16 22:06	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-6(0-1)-031016

Lab Sample ID: 500-108665-4

Date Collected: 03/10/16 08:35

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
3,3'-Dichlorobenzidine	<170 *		170	48	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Acenaphthylene	25 J		34	4.5	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Anthracene	37		34	5.7	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Benzo[a]anthracene	280 *		34	4.6	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Benzo[a]pyrene	320 *		34	6.6	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Benzo[b]fluoranthene	500 *		34	7.4	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Benzo[g,h,i]perylene	230 *		34	11	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Benzo[k]fluoranthene	200 *		34	10	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Bis(2-ethylhexyl) phthalate	<170 *		170	63	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Butyl benzyl phthalate	<170 *		170	65	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Carbazole	<170		170	86	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Chrysene	310 *		34	9.4	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Dibenz(a,h)anthracene	48 *		34	6.6	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Fluoranthene	380		34	6.4	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Hexachlorobenzene	<69		69	8.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-6(0-1)-031016

Lab Sample ID: 500-108665-4

Date Collected: 03/10/16 08:35

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.4

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	210	*	34	8.9	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Isophorone	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Phenanthrene	120		34	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Phenol	<170		170	76	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Pyrene	900	*	34	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		35 - 137				03/15/16 06:55	03/21/16 22:06	1
2-Fluorobiphenyl	79		25 - 119				03/15/16 06:55	03/21/16 22:06	1
2-Fluorophenol	77		25 - 110				03/15/16 06:55	03/21/16 22:06	1
Nitrobenzene-d5	72		25 - 115				03/15/16 06:55	03/21/16 22:06	1
Phenol-d5	78		31 - 110				03/15/16 06:55	03/21/16 22:06	1
Terphenyl-d14	172	X*	36 - 134				03/15/16 06:55	03/21/16 22:06	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		03/21/16 09:00	03/22/16 21:03	1
Barium	0.12	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Cobalt	0.020	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Iron	0.33	J	0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:03	1
Lead	0.0079		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:03	1
Manganese	1.5		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Nickel	0.014	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:03	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:03	1
Zinc	0.67		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:03	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		03/22/16 08:10	03/23/16 00:26	1
Barium	<0.50		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:58	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:58	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:26	1
Iron	0.80		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:58	1
Manganese	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: F93-6(0-1)-031016

Lab Sample ID: 500-108665-4

Date Collected: 03/10/16 08:35

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 93.4

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		03/22/16 08:10	03/23/16 00:26	1
Zinc	0.43	J ^ B *	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 00:26	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	☼	03/17/16 08:44	03/22/16 08:06	1
Arsenic	1.3		0.51	0.24	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Barium	15		0.51	0.094	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Beryllium	0.22		0.20	0.044	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Cadmium	0.068	J	0.10	0.030	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Calcium	140000	B	100	33	mg/Kg	☼	03/17/16 08:44	03/23/16 05:45	10
Chromium	3.4		2.6	0.088	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Cobalt	2.2		0.26	0.058	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Copper	3.4		0.51	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Iron	4500		10	3.9	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Lead	25		0.26	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Magnesium	82000	B	51	21	mg/Kg	☼	03/17/16 08:44	03/23/16 05:45	10
Manganese	220		0.51	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Nickel	4.8		0.51	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Potassium	630		26	4.2	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Sodium	850		51	6.8	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Vanadium	4.7		0.26	0.075	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	1
Zinc	36		1.0	0.32	mg/Kg	☼	03/17/16 08:44	03/22/16 08:06	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		03/20/16 18:00	03/22/16 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 14:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.2	ug/Kg	☼	03/19/16 15:30	03/22/16 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.67		0.200	0.200	SU			03/15/16 13:42	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

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		TECP/SLP Metals		PH						Comments	
<u>IDOT-040</u>																			
Project Location/State		Lab Project #		Date		Time													
<u>Bridwood & Carter Park/IL</u>																			
Sampler		Lab PM																	
<u>T. Walls</u>		<u>D. Wright</u>																	
Lab ID	MS/MSD	Sample ID		Date		Time													
<u>1</u>		<u>F93-4(0-1)-031016</u>		<u>3-10-16</u>	<u>0810</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>F93-4(0-1)-031016D</u>			<u>0810</u>														
<u>3</u>		<u>F93-5(0-1)-031016</u>			<u>0825</u>														
<u>4</u>		<u>F93-6(0-1)-031016</u>			<u>0835</u>														
<u>5</u>		<u>R95-1(0-1)-031016</u>			<u>0840</u>														
<u>6</u>		<u>AL96-1(0-1)-031016</u>			<u>0850</u>														
<u>7</u>		<u>AL96-2(0-1)-031016</u>			<u>0900</u>														
<u>8</u>		<u>AL96-3(0-1)-031016</u>			<u>0910</u>														
<u>9</u>		<u>AL96-4(0-1)-031016</u>			<u>0920</u>														
<u>10</u>		<u>AL96-5(0-1)-031016</u>		<u>3-10-16</u>	<u>0930</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 stand 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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		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 Location/State		Lab Project #		Parameter		Matrix		Comments			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix				
IDOT <u>Western</u>		IDOT-040									
Bridlewood & Custer Park/A		D. Wright									
SAMPLER <u>T. Walls</u>											
11		AL96-6(0-1)-031016	3-10-16	0940	2	S	X	X	X	X	
12		AL96-6(0-1)-031016B		0940							
13		R97-1(0-1)-031016		0950							
14		R97-2(0-1)-031016		1005							
15		RI98-1(0-1)-031016		1020							
16		R99-1(0-1)-031016		1030							
17		AL100-1(0-1)-031016		1045							
18		AL101-1(0-1)-031016		1105							
19		AL101-2(0-1)-031016		1115							
20		AL101-3(0-1)-031016	3-10-16	1130	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>Western</u>	Date <u>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</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):

21045 W. IL 113, (ISGS Site No. 2948-94)

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: 41.240319601 Longitude: -88.116382661
(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: 41.240319601 Longitude: -88.116382661Uncontaminated 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):

K94-1 TO K94-3, K94-5 TO K94-7, K94-10, K94-12 TO K94-15, K94-17, K94-19 TO K94-21, K94-23, K94-25, K94-28, K94-29 TO K94-35, AND K94-37 TO K94-42 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-94. SEE FIGURES 3-14 THROUGH 3-20 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: 500-108241-1, 500-108242-1, AND 500-108391-1.
ALSO SEE FIGURES 4-14 THROUGH 4-20 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. 2948-94
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	KR94-1(0-1)-030216	KR94-1(0-1)-030216D	KR94-2(0-1)-030216	KR94-3(0-1)-030216	KR94-4(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	KR94-1	KR94-1	KR94-2	KR94-3	KR94-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.77	8.7	8.85	7.64	8.11	<6.25,>9.0
VOCs (ug/kg)						
Acetone	46 J-	50 J-	230 J-	ND	51 J-	25000
Methyl ethyl ketone	8.8 J-	8.1 J-	50 J-	ND	8.8 J-	---
SVOCs (ug/kg)						
Benzo(a)anthracene	93 J	21 J	200 J-	74 J-	1400 J-	900 / 1100 / 1800
Benzo(a)pyrene	120 J	26 J	230 J-	110 J-	1900 J-	90 / 1300 / 2100
Benzo(b)fluoranthene	220 J	54 J	420 J-	200 J-	3500 J-	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	10 J	ND	ND	8.9 J	200 J-	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	59 J-	14 J	120 J-	49 J-	1000 J-	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	1.4	1.2	2.3	2	1.9	11.3 / 13
Barium, Total	9.6 J	24 J	64 J	42 J	23 J	1500
Beryllium, Total	0.15 J	0.17	0.34	0.25	0.27	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	170000 J	190000 J	24000 J	4400 J	16000 J	---
Chromium, Total	6.3 B	5.1 B	8.5 B	6.3 B	8.3 B	21
Iron, Total	3700 J	4200 J	7000 J	5600 J	5500 J	15000 / 15900
Lead, Total	26 J	28 J	18 J	8.5 J	32 J	107
Manganese, Total	260 J	220 J	190 J	300 J	67 J	630 / 636
Mercury, Total	ND	ND	ND	ND	ND	0.89
Nickel, Total	4.1	4.7	6.4	5.3	4.7	100
Potassium, Total	550 J+	510 J+	360 J+	360 J+	310 J+	---
Selenium, Total	0.25 J	0.23 J	0.29 J	0.4 J	0.33 J	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	24 J	27 J	23 J	19 J	21 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.38 J	0.35 J	0.52	0.32 J	0.2 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	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.016	0.0075
Manganese, TCLP	3.5	2.7	4.6	0.65	0.94	0.15
Mercury, TCLP	ND	ND	ND	ND	0.00033	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	0.056 J	0.32 J	0.2 J	0.21 J	0.18 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	0.013 J	ND	0.017 J	0.05
Barium, SPLP	0.22 J	0.27 J	0.43 J	0.17 J	0.21 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.047	0.056	0.064	0.024 J	0.059	0.1
Iron, SPLP	29 J-	35 J-	48 J-	22 J-	45 J-	5
Lead, SPLP	0.062	0.084	0.1	0.025	0.22	0.0075
Manganese, SPLP	0.25	0.3	0.64	0.59	0.31	0.15
Mercury, SPLP	ND	ND	ND	ND	0.00036	0.002
Nickel, SPLP	0.019 J	0.023 J	0.031	0.017 J	0.033	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. 2948-94
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	KR94-5(0-1)-030216	KR94-6(0-1)-030216	KR94-7(0-1)-030216	KR94-10(0-1)-030216	KR94-11(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	KR94-5	KR94-6	KR94-7	KR94-10	KR94-11	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.63	8.61	8.63	8.6	7.88	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	37 J-	300 J-	300 J-	230 J-	150 J	900 / 1100 / 1800
Benzo(a)pyrene	53 J-	340 J-	420 J-	300 J-	230 J	90 / 1300 / 2100
Benzo(b)fluoranthene	81 J-	550 J-	730 J-	480 J-	380 J	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	ND	26 J	44 J-	27 J	29 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	27 J	160 J-	220 J-	170 J-	160 J	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	1.8	2.3	1.8	4.2	4.8	11.3 / 13
Barium, Total	29 J	41 J	25 J	69 J	110 J	1500
Beryllium, Total	0.22	0.25	0.35	0.43	0.45	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	16000 J	14000 J	28000 J	74000 J	7000 J	---
Chromium, Total	5.2 B	7 B	6.6 B	9.3 B	12 B	21
Iron, Total	4700 J	6100 J	7000 J	11000 J	13000 J	15000 / 15900
Lead, Total	8.6 J	25 J	47 J	70 J	14 J	107
Manganese, Total	180 J	220 J	140 J	510 J	680 J	630 / 636
Mercury, Total	ND	ND	ND	ND	ND	0.89
Nickel, Total	4.1	5.9	6.7	13	13	100
Potassium, Total	330 J+	490 J+	560 J+	800 J+	840 J+	---
Selenium, Total	ND	0.32 J	ND	0.47 J	0.43 J	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	16 J	29 J	35 J	55 J	41 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.32 J	0.49 J	0.2 J	0.54	0.54	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	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.1	1.2	0.99	0.77	0.64	0.15
Mercury, TCLP	ND	ND	0.00024	0.00027	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	0.12 J	0.082 J	0.056 J	0.2 J	0.72	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.017 J	0.018 J	ND	0.016 J	0.034 J	0.05
Barium, SPLP	0.32 J	0.55	0.19 J	0.32 J	0.65	2
Beryllium, SPLP	ND	0.0046	ND	ND	0.0053	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.054	0.075	0.037	0.054	0.11	0.1
Iron, SPLP	47 J-	64 J-	31 J-	50 J-	110 J-	5
Lead, SPLP	0.071	0.17	0.12	0.11	0.079	0.0075
Manganese, SPLP	1	2.4	0.92	0.88	1.7	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.039	0.051	0.03	0.035	0.072	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	1.5 B	5

Summary Table of ISGS Site No. 2948-94
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	KR94-12(0-1)-030216	KR94-13(0-1)-030216	KR94-14(0-1)-030216	KR94-15(0-1)-030216	KR94-17(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	KR94-12	KR94-13	KR94-14	KR94-15	KR94-17	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	7.37	8.18	7.63	7.73	7.72	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	170 J-	9.1 J	290 J-	37 J	570 J-	900 / 1100 / 1800
Benzo(a)pyrene	230 J-	ND	350 J-	46 J-	710 J-	90 / 1300 / 2100
Benzo(b)fluoranthene	390 J-	ND	590 J-	82 J-	1100 J-	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	ND	ND	47 J-	ND	68 J-	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	140 J-	ND	200 J-	20 J	290 J-	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	5.1	5.3	5.2	5.3	4.8	11.3 / 13
Barium, Total	82 J	91 J	98 J	130 J	98 J	1500
Beryllium, Total	0.48	0.48	0.49	0.53	0.41	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	22000 J	2800 J	8600 J	2800 J	15000 J	---
Chromium, Total	12 B	13 B	13 B	15 B	12 B	21
Iron, Total	14000 J	14000 J	14000 J	15000 J	12000 J	15000 / 15900
Lead, Total	29 J	17 J	17 J	14 J	16 J	107
Manganese, Total	490 J	650 J	560 J	580 J	630 J	630 / 636
Mercury, Total	ND	ND	0.055 B	ND	ND	0.89
Nickel, Total	15	16	15	15	13	100
Potassium, Total	960 J+	930 J+	1000 J+	1000 J+	1000 J+	---
Selenium, Total	0.62 J-	0.57 J-	0.74 J-	0.38 J	0.51 J	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	59 J	46 J	55 J	55 J	49 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.42 J	0.3 J	0.41 J	0.31 J	0.48 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	ND	ND	ND	1.3	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.13	0.068	0.1	0.068	0.36	0.15
Mercury, TCLP	ND	0.0003	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	0.35 J	ND	0.71	0.088 J	0.17 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.012 J	0.035 J	0.033 J	0.025 J	0.026 J	0.05
Barium, SPLP	0.29 J	0.62	0.73	1	0.54	2
Beryllium, SPLP	ND	0.0047	0.0052	0.0059	0.0041	0.004
Cadmium, SPLP	ND	ND	ND	0.002 J	ND	0.005
Chromium, SPLP	0.049	0.11	0.13	0.16	0.086	0.1
Iron, SPLP	49 J-	120 J-	130 J-	160 J-	85 J-	5
Lead, SPLP	0.041	0.074	0.072	0.057	0.064	0.0075
Manganese, SPLP	0.68	1.6	1.6	1.1	1.5	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.029	0.074	0.08	0.088	0.056	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	1.7 B	2.4 B	3.6 B	1.5 B	5

Summary Table of ISGS Site No. 2948-94
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	KR94-19(0-1)-030216	KR94-20(0-1)-030216	KR94-21(0-1)-030216	KR94-21(0-1)-030216D	KR94-23(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	KR94-19	KR94-20	KR94-21	KR94-21	KR94-23	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.03	8.52	7.96	7.91	8.5	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	340	79 *	16 J	29 J	170	900 / 1100 / 1800
Benzo(a)pyrene	450 J	93 J	25 J	36	190 J	90 / 1300 / 2100
Benzo(b)fluoranthene	750 J	140 J	36	63	330 J	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	36 J	ND	ND	ND	16 J	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	210 J	48 J	16 J	20 J	91 J	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	5.3	5.2	2	2	5.7	11.3 / 13
Barium, Total	82	40	20	20	61	1500
Beryllium, Total	0.47	0.47	0.18	0.18 J	0.42	22
Cadmium, Total	ND	ND	0.054 J	0.044 J	ND	5.2
Calcium, Total	4800	9800	9500	8000	4200	---
Chromium, Total	12 B	8.9 B	4.7 B	5.2 B	12 B	21
Iron, Total	12000	12000	4700	5300	13000	15000 / 15900
Lead, Total	12	15	11	11	10	107
Manganese, Total	520	380	140	150	440	630 / 636
Mercury, Total	0.04 J	0.053 J	0.026 J	0.021 J	0.028 J	0.89
Nickel, Total	14	17	5.1	5.7	13	100
Potassium, Total	720 B	630 B	370 B	400 B	650 B	---
Selenium, Total	0.46 J	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	37	38	22	23	35	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.71	0.44 J	0.24 J	0.23 J	0.51	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	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.1	0.64	1.1	0.97	1.2	0.15
Mercury, TCLP	ND	ND	ND	ND	0.00038	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	0.94	0.32 J	0.29 J	0.36 J	0.23 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.03 J	0.057	0.022 J	0.025 J	0.069	0.05
Barium, SPLP	0.66 J+	0.61 J+	0.21 J	0.21 J	0.82 J+	2
Beryllium, SPLP	0.0048	0.007	ND	ND	0.0083	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.1	0.15	0.052	0.058	0.19	0.1
Iron, SPLP	97 J+	170 J+	53 J+	60 J+	200 J+	5
Lead, SPLP	0.085	0.088	0.06	0.064	0.14	0.0075
Manganese, SPLP	1.8 J+	2.2 J+	0.69 J+	0.77 J+	2.4 J+	0.15
Mercury, SPLP	ND	0.00021	ND	ND	ND	0.002
Nickel, SPLP	0.074	0.15	0.044	0.051	0.14	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. 2948-94
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	KR94-25(0-1)-030216	KR94-28(0-1)-030416	KR94-29(0-1)-030416	KR94-30(0-1)-030416	KR94-31(0-1)-030416	Soil Reference Concentrations
Sample Date	3/2/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	KR94-25	KR94-28	KR94-29	KR94-30	KR94-31	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.35	8.6	8.23	8.34	7.94	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	14 J	120	110	140	ND	900 / 1100 / 1800
Benzo(a)pyrene	15 J	140 J	150 J	200 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	25 J	240 J	270 J	310 J	ND	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	53 J	53 J	75 J	ND	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	4	3.2 J	4.9 J	6.5 J	1.4 J	11.3 / 13
Barium, Total	57	50	55	66	13	1500
Beryllium, Total	0.34	0.27	0.45	0.54	0.089 J	22
Cadmium, Total	0.14	0.04 J	0.072 J	ND	0.033 J	5.2
Calcium, Total	27000	230000 J	27000 J	4300 J	3800 J	---
Chromium, Total	7.6 B	6.7 B	11 B	12 B	ND	21
Iron, Total	9200	8100 J	12000 J	17000 J	4000 J	15000 / 15900
Lead, Total	23	12 J+	21 J+	14 J+	3.8 J+	107
Manganese, Total	530	500 J	380 J	420 J	110 J	630 / 636
Mercury, Total	0.028 J	ND	ND	ND	ND	0.89
Nickel, Total	9.7	8.6 J	13 J	20 J	4.3 J	100
Potassium, Total	660 B	510 J	700 J	710 J	270 J	---
Selenium, Total	ND	0.42 J	ND	0.33 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	38	27 J	57 J	52 J	12 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.51	0.46 J	0.52	0.45 J	0.12 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	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.4	1	0.42	0.34	0.48	0.15
Mercury, TCLP	0.00029	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	0.11 J	ND	ND	ND	ND	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.021 J	0.012 J	0.089	0.11	ND	0.05
Barium, SPLP	0.46 J	0.31 J	1 J-	1.1 J-	0.2 J	2
Beryllium, SPLP	ND	ND	0.0097	0.011	ND	0.004
Cadmium, SPLP	ND	ND	0.0028 J	0.0026 J	ND	0.005
Chromium, SPLP	0.075	0.032	0.21	0.26	0.01 J	0.1
Iron, SPLP	68 J+	28 J-	240 J-	280 J-	6.6 J-	5
Lead, SPLP	0.059	0.019	0.12	0.12	ND	0.0075
Manganese, SPLP	1.7 J+	0.41 J-	2.9 J-	2.8 J-	0.17 J-	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.048	0.02 J	0.17	0.18	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	0.35 J	0.96 J-	0.75 J-	0.39 J	5

Summary Table of ISGS Site No. 2948-94
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	KR94-31(0-1)-030416D	KR94-32(0-1)-030416	KR94-33(0-1)-030416	KR94-34(0-1)-030416	KR94-35(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	KR94-31	KR94-32	KR94-33	KR94-34	KR94-35	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.07	8.27	8.87	7.92	8.83	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	ND	120 J	12 J	ND	510 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	160 J	ND	ND	590 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	310 J	ND	ND	990 J	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	64 J	ND	ND	230 J	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	1.9 J	1.3 J	1.3 J	2 J	2 J	11.3 / 13
Barium, Total	21	31	25	17	25	1500
Beryllium, Total	0.15 J	0.16 J	0.23	0.17 J	0.21 J	22
Cadmium, Total	0.045 J	0.042 J	0.04 J	ND	ND	5.2
Calcium, Total	4300 J	21000 J	18000 J	810 J	1500 J	---
Chromium, Total	5.2 B	ND	7 B	6.1 B	7.6 B	21
Iron, Total	5000 J	4000 J	6300 J	5900 J	6500 J	15000 / 15900
Lead, Total	4.8 J+	8.3 J+	7.8 J+	3 J+	4.9 J+	107
Manganese, Total	200 J	220 J	83 J	70 J	120 J	630 / 636
Mercury, Total	ND	ND	ND	ND	ND	0.89
Nickel, Total	5.5 J	3.9 J	6.7 J	6.2 J	5.7 J	100
Potassium, Total	340 J	320 J	470 J	370 J	430 J	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	16 J	16 J	20 J	15 J	17 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.11 J	0.35 J	0.32 J	0.22 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	ND	ND	ND	0.58	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.37	1.3	0.49	0.094	0.39	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	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.19 J	0.23 J	0.26 J	0.21 J	0.18 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.014 J	0.012 J	ND	ND	ND	0.1
Iron, SPLP	9.5 J-	7.2 J-	1.1 J-	2.5 J-	1.5 J-	5
Lead, SPLP	0.0081	0.011	ND	ND	ND	0.0075
Manganese, SPLP	0.24 J-	0.22 J-	0.019 J	0.026 J-	0.018 J	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.011 J	ND	ND	ND	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.18 J	0.21 J	0.3 J	0.23 J	0.2 J	5

Summary Table of ISGS Site No. 2948-94
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	KR94-37(0-1)-030416	KR94-38(0-1)-030416	KR94-39(0-1)-030416	KR94-40(0-1)-030416	KR94-41(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	KR94-37	KR94-38	KR94-39	KR94-40	KR94-41	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-94	2948-94	2948-94	2948-94	2948-94	
Parameter						
Laboratory pH	8.5	7	7.3	8.56	8.24	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	ND	ND	11 J	ND	9.8 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	11 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	20 J	ND	13 J	900 / 1500 / 2100
Carbazole	ND	ND	ND	ND	ND	600
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	900 / 900 / 1600
Total Metals (mg/kg)						
Arsenic, Total	4.4 J	5 J	0.84 J	1.2 J	0.92 J	11.3 / 13
Barium, Total	35	57	25	21	6.4	1500
Beryllium, Total	0.33	0.43	0.11 J	0.15 J	0.05 J	22
Cadmium, Total	ND	ND	0.075 J	0.13	0.036 J	5.2
Calcium, Total	1100 J	990 J	2600 J	8400 J	1200 J	---
Chromium, Total	9.2 B	13 B	ND	ND	ND	21
Iron, Total	10000 J	12000 J	3700 J	4000 J	2600 J	15000 / 15900
Lead, Total	7 J+	8.2 J+	6.5 J+	4 J+	2.7 J+	107
Manganese, Total	200 J	260 J	160 J	120 J	55 J	630 / 636
Mercury, Total	ND	ND	ND	ND	ND	0.89
Nickel, Total	9.4 J	8.9 J	3.7 J	4 J	3.2 J	100
Potassium, Total	580 J	720 J	260 J	290 J	190 J	---
Selenium, Total	0.3 J	0.39 J	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	28 J	29 J	17 J	24 J	8.7 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.25 J	0.33 J	0.32 J	0.32 J	0.078 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	ND	ND	0.21 J	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.063	0.058	0.27	1.2	0.47	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	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	0.063	ND	ND	ND	0.05
Barium, SPLP	0.14 J	0.73 J-	0.13 J	0.2 J	ND	2
Beryllium, SPLP	ND	0.0075	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	ND	0.17	0.017 J	0.03	ND	0.1
Iron, SPLP	0.45 J-	170 J-	13 J-	22 J-	5.4 J-	5
Lead, SPLP	ND	0.071	0.017	0.021	0.009	0.0075
Manganese, SPLP	0.025 R	1.5 J-	0.5 J-	0.64 J-	0.15 J-	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.085	0.013 J	0.024 J	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.46 J	0.81 J-	0.25 J	0.17 J	0.3 J	5

Summary Table of ISGS Site No. 2948-94
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	KR94-41(0-1)-030416D	KR94-42(0-1)-030416	Soil Reference Concentrations
Sample Date	3/4/2016	3/4/2016	
Location ID	KR94-41	KR94-42	
Depth	0 - 1	0 - 1	
Location Code	2948-94	2948-94	
Parameter			
Laboratory pH	8.17	7.12	<6.25,>9.0
VOCs (ug/kg)			
Acetone	ND	ND	25000
Methyl ethyl ketone	ND	ND	---
SVOCs (ug/kg)			
Benzo(a)anthracene	7.1 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	900 / 1500 / 2100
Carbazole	ND	ND	600
Dibenzo(a,h)anthracene	ND	ND	90 / 200 / 420
Indeno(1,2,3-cd)pyrene	ND	ND	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	1.1 J	0.81 J	11.3 / 13
Barium, Total	6.3	14	1500
Beryllium, Total	0.072 J	ND	22
Cadmium, Total	0.029 J	0.052 J	5.2
Calcium, Total	2600 J	3200 J	---
Chromium, Total	ND	ND	21
Iron, Total	2700 J	3100 J	15000 / 15900
Lead, Total	3.3 J+	3.3 J+	107
Manganese, Total	61 J	130 J	630 / 636
Mercury, Total	ND	ND	0.89
Nickel, Total	3.3 J	2.6 J	100
Potassium, Total	190 J	180 J	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	9.5 J	13 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.084 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	0.52	0.39	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
SPLP Metals (mg/l)			
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	ND	ND	0.1
Iron, SPLP	7.5 J-	3.2 J-	5
Lead, SPLP	0.015	ND	0.0075
Manganese, SPLP	0.18 J-	0.18 J-	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	0.25 J	0.31 J	5

Summary Table of ISGS Site No. 2948-94
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.

^A - 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.

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108242-1
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 4:36:23 PM

Richard Wright, Senior Project Manager
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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: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216

Lab Sample ID: 500-108242-1

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 89.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	46		22	4.3	ug/Kg	☼		03/03/16 18:06	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 18:06	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/03/16 18:06	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 18:06	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 18:06	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 18:06	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 18:06	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/03/16 18:06	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 18:06	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 18:06	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/03/16 18:06	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 18:06	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/03/16 18:06	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 18:06	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 18:06	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 18:06	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 18:06	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/03/16 18:06	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/03/16 18:06	1
Methyl Ethyl Ketone	8.8		5.6	2.0	ug/Kg	☼		03/03/16 18:06	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 18:06	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/03/16 18:06	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 18:06	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 18:06	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 18:06	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 18:06	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 18:06	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 18:06	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 18:06	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 18:06	1
Dibromofluoromethane	109		75 - 120		03/03/16 18:06	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/03/16 18:06	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 18:06	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	40	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216

Lab Sample ID: 500-108242-1

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

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	84	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Methylnaphthalene	10	J	36	6.7	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Anthracene	19	J	36	6.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Benzo[a]anthracene	93		36	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Benzo[a]pyrene	120		36	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Benzo[b]fluoranthene	220		36	7.9	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Benzo[g,h,i]perylene	65		36	12	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Benzo[k]fluoranthene	74		36	11	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Bis(2-ethylhexyl) phthalate	86	J B	180	67	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Carbazole	<180		180	92	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Chrysene	130		36	10	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Dibenz(a,h)anthracene	10	J	36	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Fluoranthene	300		36	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Fluorene	7.6	J	36	5.2	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216

Lab Sample ID: 500-108242-1

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

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	59		36	9.5	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Phenanthrene	190		36	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Pyrene	270		36	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				03/08/16 14:02	03/09/16 16:05	1
2-Fluorobiphenyl	76		25 - 119				03/08/16 14:02	03/09/16 16:05	1
2-Fluorophenol	81		25 - 110				03/08/16 14:02	03/09/16 16:05	1
Nitrobenzene-d5	70		25 - 115				03/08/16 14:02	03/09/16 16:05	1
Phenol-d5	79		31 - 110				03/08/16 14:02	03/09/16 16:05	1
Terphenyl-d14	91		36 - 134				03/08/16 14:02	03/09/16 16:05	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		03/05/16 11:59	03/07/16 11:02	1
Barium	0.38	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 11:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 11:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 11:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 11:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 11:02	1
Manganese	3.5		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 11:02	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:02	1
Zinc	0.056	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 11:02	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		03/05/16 11:57	03/07/16 18:52	1
Barium	0.22	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 18:52	1
Chromium	0.047		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 18:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 18:52	1
Copper	0.020	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 18:52	1
Iron	29		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 18:52	1
Lead	0.062		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 18:52	1
Manganese	0.25		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 18:52	1
Nickel	0.019	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 18:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216

Lab Sample ID: 500-108242-1

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 18:52	1
Zinc	0.43	J B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 18:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J F1 F2	0.95	0.20	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Arsenic	1.4		0.47	0.22	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Barium	9.6		0.47	0.087	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Beryllium	0.15	J	0.19	0.041	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Cadmium	0.16	B	0.095	0.027	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Calcium	17000	B F2	95	30	mg/Kg	☼	03/03/16 09:03	03/03/16 20:18	10
Chromium	6.3	B	0.47	0.081	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Cobalt	1.9		0.24	0.053	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Copper	3.3		0.47	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Iron	3700	B F2	9.5	3.6	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Lead	26	F2	0.24	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Magnesium	98000	B F2	47	19	mg/Kg	☼	03/03/16 09:03	03/03/16 20:18	10
Manganese	260	F2	0.47	0.094	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Nickel	4.1		0.47	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Potassium	550	F1	24	3.9	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Selenium	0.25	J F1	0.47	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Sodium	670	F1	47	6.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Vanadium	3.8		0.24	0.069	mg/Kg	☼	03/03/16 09:03	03/03/16 18:04	1
Zinc	24	F1	0.95	0.30	mg/Kg	☼	03/03/16 09:03	03/03/16 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	03/07/16 22:31	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		03/05/16 16:15	03/07/16 20:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36	B	18	9.3	ug/Kg	☼	03/03/16 16:15	03/04/16 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			03/03/16 19:29	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216D

Lab Sample ID: 500-108242-2

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50		22	4.2	ug/Kg	☼		03/03/16 18:32	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/03/16 18:32	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/03/16 18:32	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/03/16 18:32	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/03/16 18:32	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/03/16 18:32	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/03/16 18:32	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/03/16 18:32	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/03/16 18:32	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/03/16 18:32	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/03/16 18:32	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/03/16 18:32	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/03/16 18:32	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/03/16 18:32	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/03/16 18:32	1
Methyl Ethyl Ketone	8.1		5.4	1.9	ug/Kg	☼		03/03/16 18:32	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/03/16 18:32	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/03/16 18:32	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/03/16 18:32	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/03/16 18:32	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/03/16 18:32	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/03/16 18:32	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/03/16 18:32	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/03/16 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 18:32	1
Dibromofluoromethane	110		75 - 120		03/03/16 18:32	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/03/16 18:32	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 18:32	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	38	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216D

Lab Sample ID: 500-108242-2

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.9

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	☼	03/08/16 14:02	03/09/16 16:34	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Methylnaphthalene	9.4	J	35	6.5	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Benzo[a]anthracene	21	J	35	4.7	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Benzo[a]pyrene	26	J	35	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Benzo[b]fluoranthene	54		35	7.6	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Benzo[g,h,i]perylene	18	J	35	11	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Benzo[k]fluoranthene	17	J	35	10	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Bis(2-ethylhexyl) phthalate	91	J B	180	64	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Carbazole	<180		180	88	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Chrysene	33	J	35	9.6	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Dibenz(a,h)anthracene	<35		35	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Fluoranthene	45		35	6.5	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216D

Lab Sample ID: 500-108242-2

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.9

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	14	J	35	9.1	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Isophorone	<180		180	39	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Phenanthrene	41		35	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Phenol	<180		180	78	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1
Pyrene	53		35	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137	03/08/16 14:02	03/09/16 16:34	1
2-Fluorobiphenyl	68		25 - 119	03/08/16 14:02	03/09/16 16:34	1
2-Fluorophenol	72		25 - 110	03/08/16 14:02	03/09/16 16:34	1
Nitrobenzene-d5	60		25 - 115	03/08/16 14:02	03/09/16 16:34	1
Phenol-d5	63		31 - 110	03/08/16 14:02	03/09/16 16:34	1
Terphenyl-d14	83		36 - 134	03/08/16 14:02	03/09/16 16:34	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		03/05/16 11:59	03/07/16 11:09	1
Barium	0.35	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 11:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 11:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 11:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Cobalt	0.015	J	0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 11:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 11:09	1
Manganese	2.7		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 11:09	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:09	1
Zinc	0.32	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 11:09	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		03/05/16 11:57	03/07/16 19:35	1
Barium	0.27	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 19:35	1
Chromium	0.056		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:35	1
Copper	0.024	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:35	1
Iron	35		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 19:35	1
Lead	0.084		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 19:35	1
Manganese	0.30		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:35	1
Nickel	0.023	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 19:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-1(0-1)-030216D

Lab Sample ID: 500-108242-2

Date Collected: 03/02/16 08:50

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.9

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		03/05/16 11:57	03/07/16 19:35	1
Zinc	0.56	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 19:35	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	0.82	0.17	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Arsenic	1.2		0.41	0.19	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Barium	24		0.41	0.075	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Beryllium	0.17		0.16	0.036	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Cadmium	0.15	B	0.082	0.024	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Calcium	190000	B	82	26	mg/Kg	☼	03/03/16 09:03	03/03/16 20:51	10
Chromium	5.1	B	0.41	0.071	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Cobalt	1.7		0.21	0.046	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Copper	5.3		0.41	0.089	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Iron	4200	B	8.2	3.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Lead	28		0.21	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Magnesium	120000	B	41	17	mg/Kg	☼	03/03/16 09:03	03/03/16 20:51	10
Manganese	220		0.41	0.081	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Nickel	4.7		0.41	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Potassium	510		21	3.3	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Selenium	0.23	J	0.41	0.20	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Silver	<0.21		0.21	0.048	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Sodium	710		41	5.4	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Thallium	<0.41		0.41	0.20	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Vanadium	4.6		0.21	0.060	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	1
Zinc	27		0.82	0.26	mg/Kg	☼	03/03/16 09:03	03/03/16 18:29	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		03/05/16 16:15	03/07/16 22:32	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 20:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34	B	17	8.8	ug/Kg	☼	03/03/16 16:15	03/04/16 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			03/03/16 19:37	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-2(0-1)-030216

Lab Sample ID: 500-108242-3

Date Collected: 03/02/16 09:20

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 84.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	230		24	4.6	ug/Kg	☼		03/03/16 18:59	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 18:59	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/03/16 18:59	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 18:59	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/03/16 18:59	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 18:59	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/03/16 18:59	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/03/16 18:59	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/03/16 18:59	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/03/16 18:59	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 18:59	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 18:59	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 18:59	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 18:59	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/03/16 18:59	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/03/16 18:59	1
Methyl Ethyl Ketone	50		5.9	2.1	ug/Kg	☼		03/03/16 18:59	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/03/16 18:59	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/03/16 18:59	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/03/16 18:59	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/03/16 18:59	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/03/16 18:59	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/03/16 18:59	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/03/16 18:59	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/03/16 18:59	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/03/16 18:59	1
Dibromofluoromethane	109		75 - 120		03/03/16 18:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 18:59	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190	F1 F2	190	40	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
1,2-Dichlorobenzene	<190	F2	190	44	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
1,4-Dichlorobenzene	<190	F1 F2	190	47	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-2(0-1)-030216

Lab Sample ID: 500-108242-3

Date Collected: 03/02/16 09:20

Matrix: Solid

Date Received: 03/02/16 16:25

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	<370	F2	370	84	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,4,6-Trichlorophenol	<370	F2	370	130	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,4-Dichlorophenol	<370	F1 F2	370	88	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,4-Dimethylphenol	<370	F1 F2	370	140	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,4-Dinitrophenol	<750	F1	750	650	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,4-Dinitrotoluene	<190	F1 F2	190	59	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Methylnaphthalene	26	J	37	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
2-Nitrophenol	<370	F1	370	87	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
3 & 4 Methylphenol	<190	F1 F2	190	62	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
3,3'-Dichlorobenzidine	<190	F2	190	52	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4,6-Dinitro-2-methylphenol	<750	F1	750	300	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Chloro-3-methylphenol	<370	F1 F2	370	130	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Nitroaniline	<370	F2	370	150	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Acenaphthene	40		37	6.7	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Acenaphthylene	28	J	37	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Anthracene	61		37	6.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Benzo[a]anthracene	200		37	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Benzo[a]pyrene	230		37	7.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Benzo[b]fluoranthene	420		37	8.0	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Benzo[g,h,i]perylene	85	F1	37	12	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Benzo[k]fluoranthene	130		37	11	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Bis(2-chloroethyl)ether	<190	F1 F2	190	56	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Bis(2-ethylhexyl) phthalate	81	J B F1	190	68	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Butyl benzyl phthalate	<190	F1	190	70	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Carbazole	<190		190	93	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Chrysene	220		37	10	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Di-n-octyl phthalate	<190	F1	190	60	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Fluoranthene	560	F1	37	6.9	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Fluorene	52		37	5.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Hexachlorobutadiene	<190	F2	190	58	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Hexachloroethane	<190	F1	190	56	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-2(0-1)-030216

Lab Sample ID: 500-108242-3

Date Collected: 03/02/16 09:20

Matrix: Solid

Date Received: 03/02/16 16:25

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	120		37	9.6	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Isophorone	<190		190	42	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Naphthalene	22	J	37	5.7	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Nitrobenzene	<37	F1 F2	37	9.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Phenanthrene	300		37	5.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Phenol	<190	F1 F2	190	82	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Pyrene	480	F1	37	7.4	ug/Kg	☼	03/08/16 14:02	03/09/16 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/08/16 14:02	03/09/16 17:02	1
2-Fluorobiphenyl	78		25 - 119				03/08/16 14:02	03/09/16 17:02	1
2-Fluorophenol	82		25 - 110				03/08/16 14:02	03/09/16 17:02	1
Nitrobenzene-d5	70		25 - 115				03/08/16 14:02	03/09/16 17:02	1
Phenol-d5	86		31 - 110				03/08/16 14:02	03/09/16 17:02	1
Terphenyl-d14	110		36 - 134				03/08/16 14:02	03/09/16 17:02	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		03/05/16 11:59	03/07/16 11:16	1
Barium	0.52		0.50	0.050	mg/L		03/05/16 11:59	03/07/16 11:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 11:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 11:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 11:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 11:16	1
Manganese	4.6		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 11:16	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:16	1
Zinc	0.20	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Barium	0.43	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 19:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 19:42	1
Chromium	0.064		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Copper	0.043		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Iron	48		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 19:42	1
Lead	0.10		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 19:42	1
Manganese	0.64		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Nickel	0.031		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 19:42	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-2(0-1)-030216

Lab Sample ID: 500-108242-3

Date Collected: 03/02/16 09:20

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 19:42	1
Zinc	1.1	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 19:42	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 09:03	03/03/16 18:35	1
Arsenic	2.3		0.58	0.27	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Barium	64		0.58	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Beryllium	0.34		0.23	0.050	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Cadmium	0.16	B	0.12	0.033	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Calcium	24000	B	12	3.7	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Chromium	8.5	B	0.58	0.099	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Cobalt	2.8		0.29	0.065	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Copper	5.3		0.58	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Iron	7000	B	12	4.4	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Lead	18		0.29	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Magnesium	14000	B	5.8	2.3	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Manganese	190		0.58	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Nickel	6.4		0.58	0.16	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Potassium	360		29	4.7	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Selenium	0.29	J	0.58	0.29	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Sodium	1600		58	7.6	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Vanadium	13		0.29	0.084	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1
Zinc	23		1.2	0.36	mg/Kg	☼	03/03/16 09:03	03/03/16 18:35	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:38	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 20:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31	B	17	9.1	ug/Kg	☼	03/03/16 16:15	03/04/16 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.85		0.200	0.200	SU			03/03/16 19:45	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-3(0-1)-030216

Lab Sample ID: 500-108242-4

Date Collected: 03/02/16 09:40

Matrix: Solid

Date Received: 03/02/16 16:25

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	☼		03/03/16 19:25	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 19:25	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/03/16 19:25	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 19:25	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 19:25	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/03/16 19:25	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 19:25	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 19:25	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/03/16 19:25	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/03/16 19:25	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/03/16 19:25	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/03/16 19:25	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 19:25	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/03/16 19:25	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/03/16 19:25	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 19:25	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 19:25	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/03/16 19:25	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/03/16 19:25	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/03/16 19:25	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/03/16 19:25	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/03/16 19:25	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/03/16 19:25	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/03/16 19:25	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/03/16 19:25	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 19:25	1
Dibromofluoromethane	112		75 - 120		03/03/16 19:25	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 19:25	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 19:25	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 14:02	03/09/16 17:31	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-3(0-1)-030216

Lab Sample ID: 500-108242-4

Date Collected: 03/02/16 09:40

Matrix: Solid

Date Received: 03/02/16 16:25

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	<360		360	83	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Acenaphthylene	32	J	36	4.8	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Anthracene	17	J	36	6.1	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Benzo[a]anthracene	74		36	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Benzo[a]pyrene	110		36	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Benzo[b]fluoranthene	200		36	7.8	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Benzo[g,h,i]perylene	50		36	12	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Benzo[k]fluoranthene	70		36	11	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Bis(2-ethylhexyl) phthalate	72	J B	180	66	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Chrysene	89		36	9.9	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Dibenz(a,h)anthracene	8.9	J	36	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Fluoranthene	140		36	6.7	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-3(0-1)-030216

Lab Sample ID: 500-108242-4

Date Collected: 03/02/16 09:40

Matrix: Solid

Date Received: 03/02/16 16:25

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	49		36	9.4	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Phenanthrene	59		36	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Pyrene	160		36	7.2	ug/Kg	☼	03/08/16 14:02	03/09/16 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/08/16 14:02	03/09/16 17:31	1
2-Fluorobiphenyl	71		25 - 119				03/08/16 14:02	03/09/16 17:31	1
2-Fluorophenol	75		25 - 110				03/08/16 14:02	03/09/16 17:31	1
Nitrobenzene-d5	66		25 - 115				03/08/16 14:02	03/09/16 17:31	1
Phenol-d5	75		31 - 110				03/08/16 14:02	03/09/16 17:31	1
Terphenyl-d14	100		36 - 134				03/08/16 14:02	03/09/16 17:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Barium	0.32	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 11:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 11:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 11:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 11:22	1
Manganese	0.65		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 11:22	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 11:22	1
Zinc	0.21	J	0.50	0.020	mg/L		03/05/16 11:59	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		03/05/16 11:57	03/07/16 19:49	1
Barium	0.17	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 19:49	1
Chromium	0.024	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:49	1
Copper	0.014	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:49	1
Iron	22		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 19:49	1
Lead	0.025		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 19:49	1
Manganese	0.59		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:49	1
Nickel	0.017	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 19:49	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-3(0-1)-030216

Lab Sample ID: 500-108242-4

Date Collected: 03/02/16 09:40

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 19:49	1
Zinc	0.61	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 19:49	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	☼	03/03/16 09:03	03/03/16 18:40	1
Arsenic	2.0		0.50	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Barium	42		0.50	0.092	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Beryllium	0.25		0.20	0.044	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Cadmium	0.094	J B	0.10	0.029	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Calcium	4400	B	10	3.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Chromium	6.3	B	0.50	0.086	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Cobalt	2.9		0.25	0.057	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Copper	3.5		0.50	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Iron	5600	B	10	3.9	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Lead	8.5		0.25	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Magnesium	2600	B	5.0	2.0	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Manganese	300		0.50	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Nickel	5.3		0.50	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Potassium	360		25	4.1	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Selenium	0.40	J	0.50	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Sodium	150		50	6.6	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Vanadium	10		0.25	0.073	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	1
Zinc	19		1.0	0.32	mg/Kg	☼	03/03/16 09:03	03/03/16 18:40	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		03/05/16 16:15	03/07/16 22:40	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		03/05/16 16:15	03/07/16 20:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24	B	18	9.6	ug/Kg	☼	03/03/16 16:15	03/04/16 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64		0.200	0.200	SU			03/03/16 19:52	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-5(0-1)-030216

Lab Sample ID: 500-108242-6

Date Collected: 03/02/16 10:08

Matrix: Solid

Date Received: 03/02/16 16:25

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	☼		03/03/16 22:40	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 22:40	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/03/16 22:40	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 22:40	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 22:40	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 22:40	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 22:40	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/03/16 22:40	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 22:40	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 22:40	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/03/16 22:40	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 22:40	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/03/16 22:40	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 22:40	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 22:40	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 22:40	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 22:40	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/03/16 22:40	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/03/16 22:40	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 22:40	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 22:40	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/03/16 22:40	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 22:40	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 22:40	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 22:40	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 22:40	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 22:40	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 22:40	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 22:40	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 22:40	1
Dibromofluoromethane	109		75 - 120		03/03/16 22:40	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 22:40	1
Toluene-d8 (Surr)	105		75 - 122		03/03/16 22:40	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	38	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-5(0-1)-030216

Lab Sample ID: 500-108242-6

Date Collected: 03/02/16 10:08

Matrix: Solid

Date Received: 03/02/16 16:25

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	<350		350	81	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Acenaphthylene	11	J	35	4.7	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Anthracene	7.7	J	35	5.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Benzo[a]anthracene	37		35	4.8	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Benzo[a]pyrene	53	*	35	6.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Benzo[b]fluoranthene	81	*	35	7.7	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Benzo[g,h,i]perylene	29	J *	35	11	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Benzo[k]fluoranthene	36	*	35	10	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Bis(2-ethylhexyl) phthalate	100	J B	180	65	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Carbazole	<180		180	89	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Chrysene	46		35	9.7	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Fluoranthene	70		35	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-5(0-1)-030216

Lab Sample ID: 500-108242-6

Date Collected: 03/02/16 10:08

Matrix: Solid

Date Received: 03/02/16 16:25

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	27	J*	35	9.2	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Isophorone	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Phenanthrene	54		35	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Phenol	<180		180	79	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Pyrene	100		35	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	65		35 - 137				03/08/16 14:02	03/09/16 18:29	1
<i>2-Fluorobiphenyl</i>	76		25 - 119				03/08/16 14:02	03/09/16 18:29	1
<i>2-Fluorophenol</i>	84		25 - 110				03/08/16 14:02	03/09/16 18:29	1
<i>Nitrobenzene-d5</i>	70		25 - 115				03/08/16 14:02	03/09/16 18:29	1
<i>Phenol-d5</i>	82		31 - 110				03/08/16 14:02	03/09/16 18:29	1
<i>Terphenyl-d14</i>	130		36 - 134				03/08/16 14:02	03/09/16 18:29	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		03/05/16 11:59	03/07/16 12:12	1
Barium	0.32	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 12:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 12:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 12:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 12:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 12:12	1
Manganese	1.1		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 12:12	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:12	1
Zinc	0.12	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Barium	0.32	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 20:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 20:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 20:02	1
Chromium	0.054		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Cobalt	0.014	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Copper	0.031		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Iron	47		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 20:02	1
Lead	0.071		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 20:02	1
Manganese	1.0		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Nickel	0.039		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 20:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-5(0-1)-030216

Lab Sample ID: 500-108242-6

Date Collected: 03/02/16 10:08

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 20:02	1
Zinc	0.61	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 20:02	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 09:03	03/03/16 18:57	1
Arsenic	1.8		0.55	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Barium	29		0.55	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Beryllium	0.22		0.22	0.047	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Cadmium	0.13	B	0.11	0.032	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Calcium	16000	B	11	3.5	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Chromium	5.2	B	0.55	0.094	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Cobalt	2.3		0.27	0.062	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Copper	3.0		0.55	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Iron	4700	B	11	4.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Lead	8.6		0.27	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Magnesium	9800	B	5.5	2.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Manganese	180		0.55	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Nickel	4.1		0.55	0.15	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Potassium	330		27	4.5	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Sodium	550		55	7.2	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Vanadium	9.1		0.27	0.080	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	1
Zinc	16		1.1	0.35	mg/Kg	☼	03/03/16 09:03	03/03/16 18:57	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		03/05/16 16:15	03/07/16 22:44	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		03/05/16 16:15	03/07/16 20:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	B	16	8.5	ug/Kg	☼	03/03/16 16:15	03/04/16 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/03/16 20:08	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-6(0-1)-030216

Lab Sample ID: 500-108242-7

Date Collected: 03/02/16 10:30

Matrix: Solid

Date Received: 03/02/16 16:25

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	☼		03/03/16 23:07	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 23:07	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/03/16 23:07	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 23:07	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 23:07	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/03/16 23:07	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 23:07	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/03/16 23:07	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 23:07	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 23:07	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/03/16 23:07	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 23:07	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/03/16 23:07	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 23:07	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 23:07	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 23:07	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 23:07	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/03/16 23:07	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/03/16 23:07	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 23:07	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 23:07	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/03/16 23:07	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/03/16 23:07	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/03/16 23:07	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/03/16 23:07	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/03/16 23:07	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/03/16 23:07	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/03/16 23:07	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/03/16 23:07	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/03/16 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/03/16 23:07	1
Dibromofluoromethane	108		75 - 120		03/03/16 23:07	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/03/16 23:07	1
Toluene-d8 (Surr)	104		75 - 122		03/03/16 23:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-6(0-1)-030216

Lab Sample ID: 500-108242-7

Date Collected: 03/02/16 10:30

Matrix: Solid

Date Received: 03/02/16 16:25

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 14:02	03/09/16 18:57	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Methylnaphthalene	56		36	6.7	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Acenaphthene	29 J		36	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Acenaphthylene	81		36	4.8	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Anthracene	120		36	6.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Benzo[a]anthracene	300		36	4.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Benzo[a]pyrene	340 *		36	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Benzo[b]fluoranthene	550 *		36	7.9	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Benzo[g,h,i]perylene	130 *		36	12	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Benzo[k]fluoranthene	210 *		36	11	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Bis(2-ethylhexyl) phthalate	97 J B		180	67	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Carbazole	<180		180	91	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Chrysene	310		36	10	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Dibenz(a,h)anthracene	26 J *		36	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Fluoranthene	650		36	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Fluorene	40		36	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-6(0-1)-030216

Lab Sample ID: 500-108242-7

Date Collected: 03/02/16 10:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 89.1

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	160	*	36	9.5	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Isophorone	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Naphthalene	20	J	36	5.6	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Phenanthrene	330		36	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Phenol	<180		180	81	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Pyrene	950		36	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/08/16 14:02	03/09/16 18:57	1
2-Fluorobiphenyl	76		25 - 119				03/08/16 14:02	03/09/16 18:57	1
2-Fluorophenol	82		25 - 110				03/08/16 14:02	03/09/16 18:57	1
Nitrobenzene-d5	70		25 - 115				03/08/16 14:02	03/09/16 18:57	1
Phenol-d5	79		31 - 110				03/08/16 14:02	03/09/16 18:57	1
Terphenyl-d14	138	X	36 - 134				03/08/16 14:02	03/09/16 18:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Barium	0.49	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 12:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 12:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 12:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 12:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 12:19	1
Manganese	1.2		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 12:19	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:19	1
Zinc	0.082	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Barium	0.55		0.50	0.050	mg/L		03/05/16 11:57	03/07/16 20:09	1
Beryllium	0.0046		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 20:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 20:09	1
Chromium	0.075		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Cobalt	0.029		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Copper	0.035		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Iron	64		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 20:09	1
Lead	0.17		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 20:09	1
Manganese	2.4		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Nickel	0.051		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 20:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-6(0-1)-030216

Lab Sample ID: 500-108242-7

Date Collected: 03/02/16 10:30

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 20:09	1
Zinc	0.86	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 20:09	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	☼	03/03/16 09:03	03/03/16 19:01	1
Arsenic	2.3		0.50	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Barium	41		0.50	0.092	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Beryllium	0.25		0.20	0.043	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Cadmium	0.12	B	0.10	0.029	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Calcium	14000	B	10	3.2	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Chromium	7.0	B	0.50	0.086	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Cobalt	3.7		0.25	0.057	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Copper	4.0		0.50	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Iron	6100	B	10	3.9	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Lead	25		0.25	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Magnesium	8700	B	5.0	2.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Manganese	220		0.50	0.099	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Nickel	5.9		0.50	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Potassium	490		25	4.1	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Selenium	0.32	J	0.50	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Sodium	570		50	6.6	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Vanadium	12		0.25	0.073	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	1
Zinc	29		1.0	0.32	mg/Kg	☼	03/03/16 09:03	03/03/16 19:01	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		03/05/16 16:15	03/07/16 22:49	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 20:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25	B	16	8.4	ug/Kg	☼	03/03/16 16:15	03/04/16 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			03/03/16 20:16	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-7(0-1)-030216

Lab Sample ID: 500-108242-8

Date Collected: 03/02/16 10:42

Matrix: Solid

Date Received: 03/02/16 16:25

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	☼		03/03/16 23:32	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 23:32	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/03/16 23:32	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 23:32	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 23:32	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 23:32	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/03/16 23:32	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/03/16 23:32	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/03/16 23:32	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 23:32	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 23:32	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 23:32	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 23:32	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/03/16 23:32	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/03/16 23:32	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 23:32	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/03/16 23:32	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/03/16 23:32	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 23:32	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 23:32	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 23:32	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 23:32	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 23:32	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/03/16 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 23:32	1
Dibromofluoromethane	109		75 - 120		03/03/16 23:32	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/03/16 23:32	1
Toluene-d8 (Surr)	106		75 - 122		03/03/16 23:32	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	38	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-7(0-1)-030216

Lab Sample ID: 500-108242-8

Date Collected: 03/02/16 10:42

Matrix: Solid

Date Received: 03/02/16 16:25

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	<350		350	81	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Methylnaphthalene	17	J	35	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Acenaphthene	12	J	35	6.4	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Acenaphthylene	89		35	4.7	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Anthracene	63		35	6.0	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Benzo[a]anthracene	300		35	4.8	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Benzo[a]pyrene	420	*	35	6.9	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Benzo[b]fluoranthene	730	*	35	7.7	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Benzo[g,h,i]perylene	210	*	35	11	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Benzo[k]fluoranthene	280	*	35	11	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Bis(2-ethylhexyl) phthalate	120	J B	180	65	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Carbazole	<180		180	89	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Chrysene	380		35	9.7	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Dibenz(a,h)anthracene	44	*	35	6.9	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Fluoranthene	610		35	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Fluorene	16	J	35	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-7(0-1)-030216

Lab Sample ID: 500-108242-8

Date Collected: 03/02/16 10:42

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.2

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	220	*	35	9.3	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Isophorone	<180		180	40	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Naphthalene	6.6	J	35	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Phenanthrene	310		35	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Phenol	<180		180	79	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Pyrene	960		35	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				03/08/16 14:02	03/09/16 19:26	1
2-Fluorobiphenyl	71		25 - 119				03/08/16 14:02	03/09/16 19:26	1
2-Fluorophenol	79		25 - 110				03/08/16 14:02	03/09/16 19:26	1
Nitrobenzene-d5	67		25 - 115				03/08/16 14:02	03/09/16 19:26	1
Phenol-d5	76		31 - 110				03/08/16 14:02	03/09/16 19:26	1
Terphenyl-d14	136	X	36 - 134				03/08/16 14:02	03/09/16 19:26	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		03/05/16 11:59	03/07/16 12:26	1
Barium	0.20	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 12:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 12:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 12:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 12:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 12:26	1
Manganese	0.99		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 12:26	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:26	1
Zinc	0.056	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Barium	0.19	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 20:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 20:16	1
Chromium	0.037		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Copper	0.022	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Iron	31		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 20:16	1
Lead	0.12		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 20:16	1
Manganese	0.92		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Nickel	0.030		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 20:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-7(0-1)-030216

Lab Sample ID: 500-108242-8

Date Collected: 03/02/16 10:42

Matrix: Solid

Date Received: 03/02/16 16:25

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		03/05/16 11:57	03/07/16 20:16	1
Zinc	0.77	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 20:16	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	☼	03/03/16 09:03	03/03/16 19:06	1
Arsenic	1.8		0.47	0.22	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Barium	25		0.47	0.087	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Beryllium	0.35		0.19	0.041	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Cadmium	0.15	B	0.095	0.027	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Calcium	28000	B	9.5	3.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Chromium	6.6	B	0.47	0.081	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Cobalt	2.5		0.24	0.053	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Copper	4.8		0.47	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Iron	7000	B	9.5	3.6	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Lead	47		0.24	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Magnesium	17000	B	4.7	1.9	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Manganese	140		0.47	0.094	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Nickel	6.7		0.47	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Potassium	560		24	3.9	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Sodium	420		47	6.2	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Vanadium	10		0.24	0.069	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1
Zinc	35		0.95	0.30	mg/Kg	☼	03/03/16 09:03	03/03/16 19:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:51	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		03/05/16 16:15	03/07/16 20:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20	B	17	9.0	ug/Kg	☼	03/03/16 16:15	03/04/16 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/03/16 20:24	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-10(0-1)-030216

Lab Sample ID: 500-108242-11

Date Collected: 03/02/16 11:25

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	☼		03/04/16 00:51	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/04/16 00:51	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/04/16 00:51	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 00:51	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 00:51	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/04/16 00:51	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/04/16 00:51	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/04/16 00:51	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/04/16 00:51	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/04/16 00:51	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/04/16 00:51	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/04/16 00:51	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/04/16 00:51	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/04/16 00:51	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/04/16 00:51	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/04/16 00:51	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/04/16 00:51	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/04/16 00:51	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/04/16 00:51	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/04/16 00:51	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/04/16 00:51	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/04/16 00:51	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/04/16 00:51	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/04/16 00:51	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/04/16 00:51	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/04/16 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/04/16 00:51	1
Dibromofluoromethane	110		75 - 120		03/04/16 00:51	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/04/16 00:51	1
Toluene-d8 (Surr)	105		75 - 122		03/04/16 00:51	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 14:02	03/09/16 20:52	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-10(0-1)-030216

Lab Sample ID: 500-108242-11

Date Collected: 03/02/16 11:25

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	86	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Methylnaphthalene	18	J	38	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Acenaphthene	11	J	38	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Acenaphthylene	78		38	5.0	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Anthracene	45		38	6.3	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Benzo[a]anthracene	230		38	5.1	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Benzo[a]pyrene	300	*	38	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Benzo[b]fluoranthene	480	*	38	8.2	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Benzo[g,h,i]perylene	160	*	38	12	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Benzo[k]fluoranthene	180	*	38	11	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Bis(2-ethylhexyl) phthalate	110	J B	190	69	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Carbazole	<190		190	95	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Chrysene	270		38	10	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Dibenz(a,h)anthracene	27	J *	38	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Fluoranthene	380		38	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Fluorene	14	J	38	5.3	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-10(0-1)-030216

Lab Sample ID: 500-108242-11

Date Collected: 03/02/16 11:25

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
Indeno[1,2,3-cd]pyrene	170	*	38	9.8	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Isophorone	<190		190	43	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Naphthalene	6.2	J	38	5.8	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Phenanthrene	250		38	5.3	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Phenol	<190		190	84	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Pyrene	790		38	7.5	ug/Kg	☼	03/08/16 14:02	03/09/16 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		35 - 137				03/08/16 14:02	03/09/16 20:52	1
2-Fluorobiphenyl	62		25 - 119				03/08/16 14:02	03/09/16 20:52	1
2-Fluorophenol	65		25 - 110				03/08/16 14:02	03/09/16 20:52	1
Nitrobenzene-d5	53		25 - 115				03/08/16 14:02	03/09/16 20:52	1
Phenol-d5	68		31 - 110				03/08/16 14:02	03/09/16 20:52	1
Terphenyl-d14	147	X	36 - 134				03/08/16 14:02	03/09/16 20:52	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		03/05/16 11:59	03/07/16 12:46	1
Barium	0.54		0.50	0.050	mg/L		03/05/16 11:59	03/07/16 12:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 12:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 12:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 12:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 12:46	1
Manganese	0.77		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 12:46	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 12:46	1
Zinc	0.20	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Barium	0.32	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 20:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 20:52	1
Chromium	0.054		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Copper	0.036		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Iron	50		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 20:52	1
Lead	0.11		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 20:52	1
Manganese	0.88		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Nickel	0.035		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 20:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-10(0-1)-030216

Lab Sample ID: 500-108242-11

Date Collected: 03/02/16 11:25

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		03/05/16 11:57	03/07/16 20:52	1
Zinc	0.46	J B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 20:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	0.99	0.20	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Arsenic	4.2		0.49	0.23	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Barium	69		0.49	0.090	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Beryllium	0.43		0.20	0.043	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Cadmium	0.23	B	0.099	0.029	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Calcium	74000	B	99	32	mg/Kg	☼	03/03/16 09:03	03/03/16 21:36	10
Chromium	9.3	B	0.49	0.085	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Cobalt	6.9		0.25	0.056	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Copper	9.1		0.49	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Iron	11000	B	9.9	3.8	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Lead	70		0.25	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Magnesium	26000	B	4.9	2.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Manganese	510		0.49	0.098	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Nickel	13		0.49	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Potassium	800		25	4.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Selenium	0.47	J	0.49	0.24	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Sodium	1500		49	6.5	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Vanadium	16		0.25	0.072	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1
Zinc	55		0.99	0.31	mg/Kg	☼	03/03/16 09:03	03/03/16 19:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 20:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36	B	19	9.8	ug/Kg	☼	03/03/16 16:15	03/04/16 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			03/03/16 20:47	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-12(0-1)-030216

Lab Sample ID: 500-108242-14

Date Collected: 03/02/16 11:58

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	☼		03/04/16 02:09	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:09	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/04/16 02:09	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:09	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:09	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:09	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/04/16 02:09	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
Chloromethane	<6.0		6.0	1.5	ug/Kg	☼		03/04/16 02:09	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
Dibromochloromethane	<6.0		6.0	0.70	ug/Kg	☼		03/04/16 02:09	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
1,2-Dichloroethane	<6.0		6.0	0.90	ug/Kg	☼		03/04/16 02:09	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:09	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/04/16 02:09	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/04/16 02:09	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/04/16 02:09	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/04/16 02:09	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/04/16 02:09	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		03/04/16 02:09	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		03/04/16 02:09	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		03/04/16 02:09	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/04/16 02:09	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/04/16 02:09	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/04/16 02:09	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/04/16 02:09	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/04/16 02:09	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/04/16 02:09	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/04/16 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/04/16 02:09	1
Dibromofluoromethane	109		75 - 120		03/04/16 02:09	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/04/16 02:09	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 02:09	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	43	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-12(0-1)-030216

Lab Sample ID: 500-108242-14

Date Collected: 03/02/16 11:58

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	91	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Methylnaphthalene	22	J	39	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Acenaphthene	11	J	39	7.1	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Acenaphthylene	65		39	5.2	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Anthracene	51		39	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Benzo[a]anthracene	170		39	5.4	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Benzo[a]pyrene	230	*	39	7.7	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Benzo[b]fluoranthene	390	*	39	8.6	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Benzo[g,h,i]perylene	130	*	39	13	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Benzo[k]fluoranthene	130	*	39	12	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Bis(2-ethylhexyl) phthalate	220	B	200	73	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Carbazole	<200		200	99	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Chrysene	200		39	11	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Dibenz(a,h)anthracene	<39 *		39	7.7	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Fluoranthene	340		39	7.4	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Fluorene	17	J	39	5.6	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-12(0-1)-030216

Lab Sample ID: 500-108242-14

Date Collected: 03/02/16 11:58

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	140	*	39	10	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Isophorone	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Naphthalene	8.7	J	39	6.1	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Phenanthrene	230		39	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Phenol	<200		200	88	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Pyrene	610		39	7.9	ug/Kg	☼	03/08/16 14:02	03/09/16 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		35 - 137				03/08/16 14:02	03/09/16 22:18	1
2-Fluorobiphenyl	92		25 - 119				03/08/16 14:02	03/09/16 22:18	1
2-Fluorophenol	98		25 - 110				03/08/16 14:02	03/09/16 22:18	1
Nitrobenzene-d5	77		25 - 115				03/08/16 14:02	03/09/16 22:18	1
Phenol-d5	99		31 - 110				03/08/16 14:02	03/09/16 22:18	1
Terphenyl-d14	194	X	36 - 134				03/08/16 14:02	03/09/16 22:18	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		03/05/16 11:59	03/07/16 13:22	1
Barium	0.42	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 13:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 13:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 13:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 13:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 13:22	1
Manganese	0.13		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 13:22	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:22	1
Zinc	0.35	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Barium	0.29	J	0.50	0.050	mg/L		03/05/16 11:57	03/07/16 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 21:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 21:12	1
Chromium	0.049		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Copper	0.026		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Iron	49		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 21:12	1
Lead	0.041		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 21:12	1
Manganese	0.68		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Nickel	0.029		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 21:12	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-12(0-1)-030216

Lab Sample ID: 500-108242-14

Date Collected: 03/02/16 11:58

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		03/05/16 11:57	03/07/16 21:12	1
Zinc	0.68	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 21:12	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	☼	03/03/16 09:03	03/03/16 19:36	1
Arsenic	5.1		0.49	0.22	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Barium	82		0.49	0.089	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Beryllium	0.48		0.19	0.042	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Cadmium	0.15	B	0.097	0.028	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Calcium	22000	B	9.7	3.1	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Chromium	12	B	0.49	0.083	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Cobalt	6.8		0.24	0.055	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Copper	9.7		0.49	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Iron	14000	B	9.7	3.7	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Lead	29		0.24	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Magnesium	14000	B	4.9	2.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Manganese	490		0.49	0.096	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Nickel	15		0.49	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Potassium	960		24	4.0	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Selenium	0.62		0.49	0.24	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Sodium	300		49	6.4	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Vanadium	21		0.24	0.071	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	1
Zinc	59		0.97	0.31	mg/Kg	☼	03/03/16 09:03	03/03/16 19:36	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		03/05/16 16:15	03/07/16 23:03	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 21:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33	B	17	9.1	ug/Kg	☼	03/03/16 16:15	03/04/16 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.37		0.200	0.200	SU			03/03/16 21:03	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-13(0-1)-030216

Lab Sample ID: 500-108242-15

Date Collected: 03/02/16 12:10

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/04/16 02:35	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/04/16 02:35	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/04/16 02:35	1
Bromomethane	<6.1		6.1	2.3	ug/Kg	☼		03/04/16 02:35	1
Carbon disulfide	<6.1		6.1	2.3	ug/Kg	☼		03/04/16 02:35	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/04/16 02:35	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/04/16 02:35	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/04/16 02:35	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/04/16 02:35	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/04/16 02:35	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/04/16 02:35	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/04/16 02:35	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/04/16 02:35	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/04/16 02:35	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/04/16 02:35	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/04/16 02:35	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/04/16 02:35	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/04/16 02:35	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/04/16 02:35	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/04/16 02:35	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/04/16 02:35	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/04/16 02:35	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/04/16 02:35	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/04/16 02:35	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/04/16 02:35	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/04/16 02:35	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/04/16 02:35	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/04/16 02:35	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/04/16 02:35	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/04/16 02:35	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/04/16 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/04/16 02:35	1
Dibromofluoromethane	109		75 - 120		03/04/16 02:35	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/04/16 02:35	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-13(0-1)-030216

Lab Sample ID: 500-108242-15

Date Collected: 03/02/16 12:10

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	93	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,4-Dichlorophenol	<400		400	97	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Methylnaphthalene	<40		40	7.5	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Acenaphthylene	6.3 J		40	5.4	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Anthracene	<40		40	6.8	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Benzo[a]anthracene	9.1 J		40	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Benzo[a]pyrene	<40 *		40	7.9	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Benzo[b]fluoranthene	<40 *		40	8.8	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Benzo[g,h,i]perylene	<40 *		40	13	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Benzo[k]fluoranthene	<40 *		40	12	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Bis(2-ethylhexyl) phthalate	140 J B		200	74	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Carbazole	<200		200	100	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Chrysene	14 J		40	11	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Dibenz(a,h)anthracene	<40 *		40	7.9	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Dibenzofuran	<200		200	48	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Fluoranthene	16 J		40	7.5	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Hexachloroethane	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-13(0-1)-030216

Lab Sample ID: 500-108242-15

Date Collected: 03/02/16 12:10

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40	*	40	11	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Isophorone	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Naphthalene	<40		40	6.3	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Phenanthrene	24	J	40	5.7	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Phenol	<200		200	90	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1
Pyrene	34	J	40	8.1	ug/Kg	☼	03/08/16 14:02	03/09/16 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137	03/08/16 14:02	03/09/16 22:47	1
2-Fluorobiphenyl	73		25 - 119	03/08/16 14:02	03/09/16 22:47	1
2-Fluorophenol	76		25 - 110	03/08/16 14:02	03/09/16 22:47	1
Nitrobenzene-d5	68		25 - 115	03/08/16 14:02	03/09/16 22:47	1
Phenol-d5	78		31 - 110	03/08/16 14:02	03/09/16 22:47	1
Terphenyl-d14	161	X	36 - 134	03/08/16 14:02	03/09/16 22:47	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		03/05/16 11:59	03/07/16 13:29	1
Barium	0.30	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 13:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 13:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 13:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 13:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 13:29	1
Manganese	0.068		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 13:29	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:29	1
Zinc	<0.50		0.50	0.020	mg/L		03/05/16 11:59	03/07/16 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.035	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Barium	0.62		0.50	0.050	mg/L		03/05/16 11:57	03/07/16 21:19	1
Beryllium	0.0047		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 21:19	1
Chromium	0.11		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Cobalt	0.020	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Copper	0.060		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Iron	120		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 21:19	1
Lead	0.074		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 21:19	1
Manganese	1.6		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Nickel	0.074		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 21:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-13(0-1)-030216

Lab Sample ID: 500-108242-15

Date Collected: 03/02/16 12:10

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.7

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		03/05/16 11:57	03/07/16 21:19	1
Zinc	1.7	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 21:19	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 09:03	03/03/16 19:48	1
Arsenic	5.3		0.51	0.24	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Barium	91		0.51	0.093	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Beryllium	0.48		0.20	0.044	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Cadmium	0.062	J B	0.10	0.030	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Calcium	2800	B	10	3.3	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Chromium	13	B	0.51	0.088	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Cobalt	9.8		0.25	0.058	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Copper	9.1		0.51	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Iron	14000	B	10	3.9	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Lead	17		0.25	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Magnesium	2300	B	5.1	2.1	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Manganese	650		0.51	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Nickel	16		0.51	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Potassium	930		25	4.2	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Selenium	0.57		0.51	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Sodium	1000		51	6.7	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Vanadium	24		0.25	0.074	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1
Zinc	46		1.0	0.32	mg/Kg	☼	03/03/16 09:03	03/03/16 19:48	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 23:05	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 21:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25	B	20	10	ug/Kg	☼	03/03/16 16:15	03/04/16 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			03/03/16 21:10	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-14(0-1)-030216

Lab Sample ID: 500-108242-16

Date Collected: 03/02/16 12:27

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/04/16 03:02	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 03:02	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/04/16 03:02	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/04/16 03:02	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/04/16 03:02	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/04/16 03:02	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/04/16 03:02	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 03:02	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/04/16 03:02	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/04/16 03:02	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/04/16 03:02	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/04/16 03:02	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/04/16 03:02	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/04/16 03:02	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/04/16 03:02	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/04/16 03:02	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 03:02	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/04/16 03:02	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 03:02	1
Toluene	<6.2		6.2	2.1	ug/Kg	☼		03/04/16 03:02	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/04/16 03:02	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 03:02	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/04/16 03:02	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/04/16 03:02	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 03:02	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/04/16 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/04/16 03:02	1
Dibromofluoromethane	110		75 - 120		03/04/16 03:02	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/04/16 03:02	1
Toluene-d8 (Surr)	106		75 - 122		03/04/16 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-14(0-1)-030216

Lab Sample ID: 500-108242-16

Date Collected: 03/02/16 12:27

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Methylnaphthalene	14	J	39	7.2	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Acenaphthene	13	J	39	7.0	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Acenaphthylene	63		39	5.2	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Anthracene	60		39	6.6	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Benzo[a]anthracene	290	*	39	5.3	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Benzo[a]pyrene	350	*	39	7.6	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Benzo[b]fluoranthene	590	*	39	8.5	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Benzo[g,h,i]perylene	160	*	39	13	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Benzo[k]fluoranthene	240	*	39	12	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Bis(2-ethylhexyl) phthalate	140	J B *	200	72	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Butyl benzyl phthalate	<200	*	200	75	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Carbazole	<200		200	98	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Chrysene	340	*	39	11	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Dibenz(a,h)anthracene	47	*	39	7.6	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Fluoranthene	530		39	7.3	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Fluorene	17	J	39	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-14(0-1)-030216

Lab Sample ID: 500-108242-16

Date Collected: 03/02/16 12:27

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	200	*	39	10	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Isophorone	<200		200	44	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Phenanthrene	330		39	5.5	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Phenol	<200		200	87	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Pyrene	1000	*	39	7.8	ug/Kg	☼	03/08/16 14:02	03/09/16 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		35 - 137				03/08/16 14:02	03/09/16 23:16	1
2-Fluorobiphenyl	63		25 - 119				03/08/16 14:02	03/09/16 23:16	1
2-Fluorophenol	67		25 - 110				03/08/16 14:02	03/09/16 23:16	1
Nitrobenzene-d5	52		25 - 115				03/08/16 14:02	03/09/16 23:16	1
Phenol-d5	72		31 - 110				03/08/16 14:02	03/09/16 23:16	1
Terphenyl-d14	160	X *	36 - 134				03/08/16 14:02	03/09/16 23:16	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		03/05/16 11:59	03/07/16 13:35	1
Barium	0.41	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 13:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 13:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 13:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 13:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 13:35	1
Manganese	0.10		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 13:35	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:35	1
Zinc	0.71		0.50	0.020	mg/L		03/05/16 11:59	03/07/16 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Barium	0.73		0.50	0.050	mg/L		03/05/16 11:57	03/07/16 21:25	1
Beryllium	0.0052		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 21:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 21:25	1
Chromium	0.13		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Copper	0.080		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Iron	130		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 21:25	1
Lead	0.072		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 21:25	1
Manganese	1.6		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Nickel	0.080		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 21:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-14(0-1)-030216

Lab Sample ID: 500-108242-16

Date Collected: 03/02/16 12:27

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 81.2

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		03/05/16 11:57	03/07/16 21:25	1
Zinc	2.4	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 21:25	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 09:03	03/03/16 19:53	1
Arsenic	5.2		0.58	0.27	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Barium	98		0.58	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Beryllium	0.49		0.23	0.050	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Cadmium	0.12	B	0.12	0.033	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Calcium	8600	B	12	3.7	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Chromium	13	B	0.58	0.099	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Cobalt	7.9		0.29	0.065	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Copper	11		0.58	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Iron	14000	B	12	4.5	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Lead	17		0.29	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Magnesium	5600	B	5.8	2.3	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Manganese	560		0.58	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Nickel	15		0.58	0.16	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Potassium	1000		29	4.7	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Selenium	0.74		0.58	0.29	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Sodium	1300		58	7.6	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Vanadium	25		0.29	0.084	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1
Zinc	55		1.2	0.37	mg/Kg	☼	03/03/16 09:03	03/03/16 19:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 23:07	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		03/05/16 16:15	03/07/16 21:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	55	B	19	9.9	ug/Kg	☼	03/03/16 16:15	03/04/16 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			03/03/16 21:18	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-15(0-1)-030216

Lab Sample ID: 500-108242-17

Date Collected: 03/02/16 12:40

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 79.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.9	ug/Kg	☼		03/04/16 03:28	1
Benzene	<6.3		6.3	1.4	ug/Kg	☼		03/04/16 03:28	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/04/16 03:28	1
Bromoform	<6.3		6.3	1.3	ug/Kg	☼		03/04/16 03:28	1
Bromomethane	<6.3		6.3	2.3	ug/Kg	☼		03/04/16 03:28	1
Carbon disulfide	<6.3		6.3	2.3	ug/Kg	☼		03/04/16 03:28	1
Carbon tetrachloride	<6.3		6.3	1.4	ug/Kg	☼		03/04/16 03:28	1
Chlorobenzene	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
Chloroethane	<6.3		6.3	2.7	ug/Kg	☼		03/04/16 03:28	1
Chloroform	<6.3		6.3	1.2	ug/Kg	☼		03/04/16 03:28	1
Chloromethane	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
cis-1,2-Dichloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/04/16 03:28	1
cis-1,3-Dichloropropene	<6.3		6.3	1.4	ug/Kg	☼		03/04/16 03:28	1
Dibromochloromethane	<6.3		6.3	0.73	ug/Kg	☼		03/04/16 03:28	1
1,1-Dichloroethane	<6.3		6.3	1.3	ug/Kg	☼		03/04/16 03:28	1
1,2-Dichloroethane	<6.3		6.3	0.94	ug/Kg	☼		03/04/16 03:28	1
1,1-Dichloroethene	<6.3		6.3	2.3	ug/Kg	☼		03/04/16 03:28	1
1,2-Dichloropropane	<6.3		6.3	1.7	ug/Kg	☼		03/04/16 03:28	1
1,3-Dichloropropene, Total	<6.3		6.3	1.8	ug/Kg	☼		03/04/16 03:28	1
Ethylbenzene	<6.3		6.3	1.6	ug/Kg	☼		03/04/16 03:28	1
2-Hexanone	<6.3		6.3	2.0	ug/Kg	☼		03/04/16 03:28	1
Methylene Chloride	<6.3		6.3	4.8	ug/Kg	☼		03/04/16 03:28	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	☼		03/04/16 03:28	1
methyl isobutyl ketone	<6.3		6.3	1.3	ug/Kg	☼		03/04/16 03:28	1
Methyl tert-butyl ether	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
Styrene	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.0	ug/Kg	☼		03/04/16 03:28	1
Tetrachloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/04/16 03:28	1
Toluene	<6.3		6.3	2.2	ug/Kg	☼		03/04/16 03:28	1
trans-1,2-Dichloroethene	<6.3		6.3	1.6	ug/Kg	☼		03/04/16 03:28	1
trans-1,3-Dichloropropene	<6.3		6.3	1.8	ug/Kg	☼		03/04/16 03:28	1
1,1,1-Trichloroethane	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
1,1,2-Trichloroethane	<6.3		6.3	1.2	ug/Kg	☼		03/04/16 03:28	1
Trichloroethene	<6.3		6.3	1.7	ug/Kg	☼		03/04/16 03:28	1
Vinyl chloride	<6.3		6.3	1.5	ug/Kg	☼		03/04/16 03:28	1
Xylenes, Total	<13		13	2.3	ug/Kg	☼		03/04/16 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/04/16 03:28	1
Dibromofluoromethane	109		75 - 120		03/04/16 03:28	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/04/16 03:28	1
Toluene-d8 (Surr)	105		75 - 122		03/04/16 03:28	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 14:02	03/11/16 11:07	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-15(0-1)-030216

Lab Sample ID: 500-108242-17

Date Collected: 03/02/16 12:40

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	96	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,4,6-Trichlorophenol	<420		420	140	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,4-Dinitrophenol	<850		850	740	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Methylnaphthalene	<42		42	7.7	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Methylphenol	<210		210	67	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
2-Nitrophenol	<420		420	99	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
3 & 4 Methylphenol	<210		210	70	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4,6-Dinitro-2-methylphenol	<850		850	340	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Bromophenyl phenyl ether	<210		210	55	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Acenaphthene	<42		42	7.5	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Acenaphthylene	7.2 J		42	5.5	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Anthracene	<42		42	7.0	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Benzo[a]anthracene	37 J		42	5.6	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Benzo[a]pyrene	46		42	8.1	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Benzo[b]fluoranthene	82		42	9.1	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Benzo[g,h,i]perylene	21 J		42	14	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Benzo[k]fluoranthene	24 J		42	12	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Bis(2-ethylhexyl) phthalate	86 J B		210	77	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Butyl benzyl phthalate	<210		210	80	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Carbazole	<210		210	100	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Chrysene	41 J		42	11	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Dibenz(a,h)anthracene	<42		42	8.1	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Dibenzofuran	<210		210	49	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Di-n-butyl phthalate	<210		210	64	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Fluoranthene	67		42	7.8	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Fluorene	<42		42	5.9	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Hexachlorobenzene	<85		85	9.7	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Hexachlorobutadiene	<210		210	66	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Hexachloroethane	<210		210	64	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-15(0-1)-030216

Lab Sample ID: 500-108242-17

Date Collected: 03/02/16 12:40

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 79.0

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	20	J	42	11	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Isophorone	<210		210	47	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Naphthalene	<42		42	6.5	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Nitrobenzene	<42		42	10	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
N-Nitrosodi-n-propylamine	<85		85	51	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Pentachlorophenol	<850		850	670	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Phenanthrene	25	J	42	5.9	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Phenol	<210		210	93	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Pyrene	74		42	8.3	ug/Kg	☼	03/08/16 14:02	03/11/16 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	33	X	35 - 137				03/08/16 14:02	03/11/16 11:07	1
<i>2-Fluorobiphenyl</i>	67		25 - 119				03/08/16 14:02	03/11/16 11:07	1
<i>2-Fluorophenol</i>	70		25 - 110				03/08/16 14:02	03/11/16 11:07	1
<i>Nitrobenzene-d5</i>	67		25 - 115				03/08/16 14:02	03/11/16 11:07	1
<i>Phenol-d5</i>	47		31 - 110				03/08/16 14:02	03/11/16 11:07	1
<i>Terphenyl-d14</i>	108		36 - 134				03/08/16 14:02	03/11/16 11:07	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		03/05/16 11:59	03/07/16 13:42	1
Barium	0.31	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 13:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 13:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 13:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Iron	1.3		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 13:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 13:42	1
Manganese	0.068		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 13:42	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:42	1
Zinc	0.088	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Barium	1.0		0.50	0.050	mg/L		03/05/16 11:57	03/07/16 21:32	1
Beryllium	0.0059		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 21:32	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 21:32	1
Chromium	0.16		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Copper	0.089		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Iron	160		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 21:32	1
Lead	0.057		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 21:32	1
Manganese	1.1		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Nickel	0.088		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 21:32	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-15(0-1)-030216

Lab Sample ID: 500-108242-17

Date Collected: 03/02/16 12:40

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 79.0

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		03/05/16 11:57	03/07/16 21:32	1
Zinc	3.6	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 21:32	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 09:03	03/03/16 19:58	1
Arsenic	5.3		0.57	0.26	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Barium	130		0.57	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Beryllium	0.53		0.23	0.049	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Cadmium	0.058	J B	0.11	0.033	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Calcium	2800	B	11	3.6	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Chromium	15	B	0.57	0.097	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Cobalt	7.6		0.28	0.064	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Copper	11		0.57	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Iron	15000	B	11	4.4	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Lead	14		0.28	0.14	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Magnesium	2200	B	5.7	2.3	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Manganese	580		0.57	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Nickel	15		0.57	0.15	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Potassium	1000		28	4.6	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Selenium	0.38	J	0.57	0.28	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Sodium	1600		57	7.5	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Vanadium	27		0.28	0.083	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1
Zinc	55		1.1	0.36	mg/Kg	☼	03/03/16 09:03	03/03/16 19:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 23:12	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 21:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	52	B	20	11	ug/Kg	☼	03/03/16 16:15	03/04/16 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			03/03/16 21:26	1

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-17(0-1)-030216

Lab Sample ID: 500-108242-19

Date Collected: 03/02/16 13:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 80.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/04/16 04:20	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 04:20	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/04/16 04:20	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/04/16 04:20	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/04/16 04:20	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/04/16 04:20	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/04/16 04:20	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 04:20	1
Dibromochloromethane	<6.2		6.2	0.72	ug/Kg	☼		03/04/16 04:20	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
1,2-Dichloroethane	<6.2		6.2	0.93	ug/Kg	☼		03/04/16 04:20	1
1,1-Dichloroethene	<6.2		6.2	2.3	ug/Kg	☼		03/04/16 04:20	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/04/16 04:20	1
1,3-Dichloropropene, Total	<6.2		6.2	1.8	ug/Kg	☼		03/04/16 04:20	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/04/16 04:20	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/04/16 04:20	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/04/16 04:20	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
Styrene	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.99	ug/Kg	☼		03/04/16 04:20	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/04/16 04:20	1
Toluene	<6.2		6.2	2.2	ug/Kg	☼		03/04/16 04:20	1
trans-1,2-Dichloroethene	<6.2		6.2	1.6	ug/Kg	☼		03/04/16 04:20	1
trans-1,3-Dichloropropene	<6.2		6.2	1.8	ug/Kg	☼		03/04/16 04:20	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/04/16 04:20	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/04/16 04:20	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/04/16 04:20	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/04/16 04:20	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/04/16 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/04/16 04:20	1
Dibromofluoromethane	109		75 - 120		03/04/16 04:20	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/04/16 04:20	1
Toluene-d8 (Surr)	104		75 - 122		03/04/16 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-17(0-1)-030216

Lab Sample ID: 500-108242-19

Date Collected: 03/02/16 13:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Methylnaphthalene	8.7	J	39	7.3	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Acenaphthene	14	J	39	7.1	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Acenaphthylene	190		39	5.2	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Anthracene	63		39	6.6	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Benzo[a]anthracene	570		39	5.3	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Benzo[a]pyrene	710	*	39	7.7	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Benzo[b]fluoranthene	1100	*	39	8.6	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Benzo[g,h,i]perylene	320	*	39	13	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Benzo[k]fluoranthene	500	*	39	12	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Bis(2-ethylhexyl) phthalate	130	J B	200	73	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Carbazole	<200		200	99	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Chrysene	560		39	11	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Dibenz(a,h)anthracene	68	*	39	7.7	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Fluoranthene	950		39	7.4	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Fluorene	26	J	39	5.6	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-17(0-1)-030216

Lab Sample ID: 500-108242-19

Date Collected: 03/02/16 13:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 80.0

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	290	*	39	10	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Isophorone	<200		200	45	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Naphthalene	6.3	J	39	6.1	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Phenanthrene	210		39	5.5	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Phenol	<200		200	88	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Pyrene	1400		39	7.9	ug/Kg	☼	03/08/16 14:02	03/11/16 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		35 - 137				03/08/16 14:02	03/11/16 12:19	1
2-Fluorobiphenyl	69		25 - 119				03/08/16 14:02	03/11/16 12:19	1
2-Fluorophenol	69		25 - 110				03/08/16 14:02	03/11/16 12:19	1
Nitrobenzene-d5	64		25 - 115				03/08/16 14:02	03/11/16 12:19	1
Phenol-d5	62		31 - 110				03/08/16 14:02	03/11/16 12:19	1
Terphenyl-d14	139	X	36 - 134				03/08/16 14:02	03/11/16 12:19	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		03/05/16 11:59	03/07/16 13:56	1
Barium	0.48	J	0.50	0.050	mg/L		03/05/16 11:59	03/07/16 13:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:59	03/07/16 13:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:59	03/07/16 13:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Copper	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Iron	<0.40		0.40	0.20	mg/L		03/05/16 11:59	03/07/16 13:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/05/16 11:59	03/07/16 13:56	1
Manganese	0.36		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:59	03/07/16 13:56	1
Silver	<0.025		0.025	0.010	mg/L		03/05/16 11:59	03/07/16 13:56	1
Zinc	0.17	J	0.50	0.020	mg/L		03/05/16 11:59	03/07/16 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Barium	0.54		0.50	0.050	mg/L		03/05/16 11:57	03/07/16 21:46	1
Beryllium	0.0041		0.0040	0.0040	mg/L		03/05/16 11:57	03/07/16 21:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:57	03/07/16 21:46	1
Chromium	0.086		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Cobalt	0.018	J	0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Copper	0.052		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Iron	85		0.40	0.20	mg/L		03/05/16 11:57	03/07/16 21:46	1
Lead	0.064		0.0075	0.0075	mg/L		03/05/16 11:57	03/07/16 21:46	1
Manganese	1.5		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Nickel	0.056		0.025	0.010	mg/L		03/05/16 11:57	03/07/16 21:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:57	03/07/16 21:46	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108242-1

Client Sample ID: KR94-17(0-1)-030216

Lab Sample ID: 500-108242-19

Date Collected: 03/02/16 13:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 80.0

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		03/05/16 11:57	03/07/16 21:46	1
Zinc	1.5	B	0.50	0.020	mg/L		03/05/16 11:57	03/07/16 21:46	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	☼	03/03/16 09:03	03/03/16 20:08	1
Arsenic	4.8		0.59	0.27	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Barium	98		0.59	0.11	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Beryllium	0.41		0.24	0.051	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Cadmium	0.14	B	0.12	0.034	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Calcium	15000	B	12	3.8	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Cobalt	8.1		0.30	0.067	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Copper	9.2		0.59	0.13	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Iron	12000	B	12	4.6	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Lead	16		0.30	0.15	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Magnesium	8900	B	5.9	2.4	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Manganese	630		0.59	0.12	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Nickel	13		0.59	0.16	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Potassium	1000		30	4.8	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Selenium	0.51	J	0.59	0.29	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Sodium	700		59	7.8	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Vanadium	22		0.30	0.086	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	1
Zinc	49		1.2	0.37	mg/Kg	☼	03/03/16 09:03	03/03/16 20:08	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 23:16	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 21:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39	B	18	9.4	ug/Kg	☼	03/03/16 16:15	03/04/16 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			03/03/16 21:42	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108242-1

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.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

Metals

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.
B	Compound was found in the blank and sample.
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: 500-108242-1

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) S. Babinski Bill To (optional) SAMC
 Contact: S. Babinski Contact: SAMC
 Company: Weston Solutions Inc Company: _____
 Address: 300 Plaza Circle Ste 202 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 #: 500-108242
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 5.5 Cel

Client		Client Project #		Preservative		Parameter		Matrix		AS 3/2/16	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 #		Sampler		Lab PM		Matrix			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
Weston Solutions		02056.014.010030		7 7		7 7		7 7			
1201 040 - IL 113											
Broadview IL				M. Doherty-Skubic		D. Wright					
							VOCs	SVOCs	TOTAL METALS	TEMP/SPL METALS	PH
1		KR94-1(0-1)-030216	3-2-16	0850	2 S	S	X	X	X	X	X
2		KR94-1(0-1)-030216D		0850	1	S					
3		KR94-2(0-1)-030216		0920	1	S					
4		KR94-3(0-1)-030216		0940	1	S					
5		KR94-4(0-1)-030216		0955	1	S					
6		KR94-5(0-1)-030216		1008	1	S					
7		KR94-6(0-1)-030216		1030	1	S					
8		KR94-7(0-1)-030216		1042	1	S					
9		KR94-8(0-1)-030216		1055	1	S					
10		KR94-9(0-1)-030216	3-2-16	1109	2 S	S	X	X	X	X	X



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>3-2-2016</u> Time: <u>1531</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/2/16</u> Time: <u>1530</u>	Lab Courier: <u>[Signature]</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-CHE</u> Date: <u>03/2/16</u> Time: <u>16:25</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)	Bill To (optional)
Contact: <u>S. Babusukumar</u>	Contact: <u>SAME</u>
Company: <u>Weston Solutions Inc</u>	Company: _____
Address: <u>300 Plaza Circle, Ste 202</u>	Address: _____
Address: <u>Mundelein, IL 60060</u>	Address: _____
Phone: <u>224 864-7250</u>	Phone: _____
Fax: <u>224 864-7236</u>	Fax: _____
E-Mail: _____	PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-108242

Chain of Custody Number: _____

Page 2 of 2

Temperature °C of Cooler: 6.1

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		Lab Project #		Parameter		Parameter		Comments				
<u>IDET040-IL113</u>												
Project Location/State		Lab PM										
<u>Braidwood, IL</u>		<u>D. Wright</u>										
Sampler		Lab PM										
<u>M. Dineen-Skubic</u>		<u>D. Wright</u>										
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	NOCS	SVOCs	TOTAL Metals	TCUP/SLP Metals	PH	Comments
			Date	Time								
<u>11</u>		<u>KR94-10(0-1)-030216</u>	<u>3-2-16</u>	<u>1125</u>	<u>2 S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>12</u>		<u>KR94-11(0-1)-030216</u>		<u>1140</u>								
<u>13</u>		<u>KR94-11(0-1)-030216D</u>		<u>1140</u>								
<u>14</u>		<u>KR94-12(0-1)-030216</u>		<u>1158</u>								
<u>15</u>		<u>KR94-13(0-1)-030216</u>		<u>1210</u>								
<u>16</u>		<u>KR94-14(0-1)-030216</u>		<u>1227</u>								
<u>17</u>		<u>KR94-15(0-1)-030216</u>		<u>1240</u>								
<u>18</u>		<u>KR94-16(0-1)-030216</u>		<u>1250</u>								
<u>19</u>		<u>KR94-17(0-1)-030216</u>		<u>1305</u>								
<u>20</u>		<u>KR94-18(0-1)-030216</u>	<u>3-2-16</u>	<u>1313</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 Redundant 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>emphorby, dlc</u>	Company <u>Weston</u>	Date <u>3-2-2016</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-CHI</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-CHI</u>	Date <u>03/02/16</u>	Time <u>1625</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: AS 3/2/16

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: 500-108241-1
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 5:08:01 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108241-1

Client Sample ID: KR94-19(0-1)-030216

Lab Sample ID: 500-108241-1

Date Collected: 03/02/16 13:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/03/16 12:26	1
Benzene	<6.0	F1	6.0	1.3	ug/Kg	☼		03/03/16 12:26	1
Bromodichloromethane	<6.0	F1	6.0	1.0	ug/Kg	☼		03/03/16 12:26	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 12:26	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 12:26	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 12:26	1
Chlorobenzene	<6.0	F1	6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/03/16 12:26	1
Chloroform	<6.0	F1	6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
cis-1,2-Dichloroethene	<6.0	F1	6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
cis-1,3-Dichloropropene	<6.0	F1	6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
Dibromochloromethane	<6.0	F1	6.0	0.69	ug/Kg	☼		03/03/16 12:26	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
1,2-Dichloroethane	<6.0	F1	6.0	0.89	ug/Kg	☼		03/03/16 12:26	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 12:26	1
1,2-Dichloropropane	<6.0	F1	6.0	1.6	ug/Kg	☼		03/03/16 12:26	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 12:26	1
Ethylbenzene	<6.0	F1	6.0	1.5	ug/Kg	☼		03/03/16 12:26	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/03/16 12:26	1
Methylene Chloride	<6.0		6.0	4.6	ug/Kg	☼		03/03/16 12:26	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 12:26	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
Methyl tert-butyl ether	<6.0	F1	6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
Styrene	<6.0	F1	6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
1,1,2,2-Tetrachloroethane	<6.0	F1	6.0	0.96	ug/Kg	☼		03/03/16 12:26	1
Tetrachloroethene	<6.0	F1	6.0	1.3	ug/Kg	☼		03/03/16 12:26	1
Toluene	<6.0	F1	6.0	2.1	ug/Kg	☼		03/03/16 12:26	1
trans-1,2-Dichloroethene	<6.0	F1	6.0	1.5	ug/Kg	☼		03/03/16 12:26	1
trans-1,3-Dichloropropene	<6.0	F1	6.0	1.7	ug/Kg	☼		03/03/16 12:26	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
1,1,2-Trichloroethane	<6.0	F1	6.0	1.2	ug/Kg	☼		03/03/16 12:26	1
Trichloroethene	<6.0	F1	6.0	1.6	ug/Kg	☼		03/03/16 12:26	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 12:26	1
Xylenes, Total	<12	F1	12	2.2	ug/Kg	☼		03/03/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/03/16 12:26	1
Dibromofluoromethane	110		75 - 120		03/03/16 12:26	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 12:26	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 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	<190		190	42	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-19(0-1)-030216

Lab Sample ID: 500-108241-1

Date Collected: 03/02/16 13:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Acenaphthene	20	J	38	6.9	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Acenaphthylene	84		38	5.1	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Anthracene	76		38	6.5	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Benzo[a]anthracene	340		38	5.2	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Benzo[a]pyrene	450	*	38	7.5	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Benzo[b]fluoranthene	750	*	38	8.3	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Benzo[g,h,i]perylene	160	*	38	12	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Benzo[k]fluoranthene	260	*	38	11	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Carbazole	<190		190	96	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Chrysene	380		38	11	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Dibenz(a,h)anthracene	36	J *	38	7.5	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Fluoranthene	710		38	7.2	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Fluorene	36	J	38	5.4	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-19(0-1)-030216

Lab Sample ID: 500-108241-1

Date Collected: 03/02/16 13:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	210	*	38	10	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Isophorone	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Phenanthrene	290		38	5.4	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Phenol	<190		190	86	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Pyrene	960		38	7.7	ug/Kg	☼	03/03/16 16:19	03/05/16 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137				03/03/16 16:19	03/05/16 01:05	1
2-Fluorobiphenyl	71		25 - 119				03/03/16 16:19	03/05/16 01:05	1
2-Fluorophenol	86		25 - 110				03/03/16 16:19	03/05/16 01:05	1
Nitrobenzene-d5	68		25 - 115				03/03/16 16:19	03/05/16 01:05	1
Phenol-d5	80		31 - 110				03/03/16 16:19	03/05/16 01:05	1
Terphenyl-d14	132		36 - 134				03/03/16 16:19	03/05/16 01:05	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		03/04/16 14:49	03/05/16 17:18	1
Barium	0.71		0.50	0.050	mg/L		03/04/16 14:49	03/05/16 17:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 17:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 17:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 17:18	1
Manganese	1.1		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 17:18	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:18	1
Zinc	0.94		0.50	0.020	mg/L		03/04/16 14:49	03/05/16 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Barium	0.66	F1	0.50	0.050	mg/L		03/05/16 11:55	03/07/16 16:59	1
Beryllium	0.0048		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 16:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 16:59	1
Chromium	0.10		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Cobalt	0.024	J	0.025	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Copper	0.060		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Iron	97		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 16:59	1
Lead	0.085		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 16:59	1
Manganese	1.8	F1	0.025	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Nickel	0.074		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 16:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 16:59	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-19(0-1)-030216

Lab Sample ID: 500-108241-1

Date Collected: 03/02/16 13:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.1

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		03/05/16 11:55	03/07/16 16:59	1
Zinc	0.60	B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 16:59	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 08:44	03/03/16 19:44	1
Arsenic	5.3		0.57	0.26	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Barium	82		0.57	0.10	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Beryllium	0.47		0.23	0.049	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Calcium	4800		11	3.6	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Chromium	12	B	0.57	0.097	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Cobalt	8.1		0.28	0.064	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Copper	8.2		0.57	0.12	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Iron	12000		11	4.4	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Lead	12		0.28	0.14	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Magnesium	3500		5.7	2.3	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Manganese	520		0.57	0.11	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Nickel	14		0.57	0.15	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Potassium	720	B	28	4.6	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Selenium	0.46	J	0.57	0.28	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Sodium	430		57	7.5	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Vanadium	22		0.28	0.083	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	1
Zinc	37		1.1	0.36	mg/Kg	☼	03/03/16 08:44	03/03/16 19:44	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		03/05/16 16:15	03/07/16 16:35	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		03/05/16 16:15	03/07/16 17:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU			03/03/16 21:57	1

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-20(0-1)-030216

Lab Sample ID: 500-108241-2

Date Collected: 03/02/16 13:40

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	☼		03/03/16 13:45	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:45	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/03/16 13:45	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:45	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:45	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 13:45	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 13:45	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:45	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/03/16 13:45	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/03/16 13:45	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 13:45	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 13:45	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 13:45	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 13:45	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 13:45	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 13:45	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:45	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/03/16 13:45	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 13:45	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 13:45	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 13:45	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 13:45	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 13:45	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 13:45	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 13:45	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/03/16 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/03/16 13:45	1
Dibromofluoromethane	107		75 - 120		03/03/16 13:45	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/03/16 13:45	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 13:45	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	☼	03/03/16 16:19	03/06/16 22:51	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-20(0-1)-030216

Lab Sample ID: 500-108241-2

Date Collected: 03/02/16 13:40

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	☼	03/03/16 16:19	03/06/16 22:51	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,4-Dimethylphenol	<370	F1	370	140	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,4-Dinitrophenol	<740	F1	740	650	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Methylnaphthalene	7.3	J	37	6.8	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4,6-Dinitro-2-methylphenol	<740	F2	740	300	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Chloro-3-methylphenol	<370	F2	370	130	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Acenaphthene	8.6	J	37	6.6	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Acenaphthylene	17	J	37	4.9	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Anthracene	15	J	37	6.2	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Benzo[a]anthracene	79	*	37	5.0	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Benzo[a]pyrene	93	*	37	7.1	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Benzo[b]fluoranthene	140	F1 *	37	8.0	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Benzo[g,h,i]perylene	53	F1 *	37	12	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Benzo[k]fluoranthene	67	*	37	11	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Bis(2-ethylhexyl) phthalate	<190	F1 *	190	67	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Butyl benzyl phthalate	<190	F1 *	190	70	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Carbazole	<190		190	92	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Chrysene	99	*	37	10	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Dibenz(a,h)anthracene	<37	F1 *	37	7.1	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Di-n-octyl phthalate	<190	F2 F1	190	60	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Fluoranthene	130		37	6.8	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Fluorene	8.7	J	37	5.2	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Hexachlorocyclopentadiene	<740	F1	740	210	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-20(0-1)-030216

Lab Sample ID: 500-108241-2

Date Collected: 03/02/16 13:40

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	48	F1 *	37	9.6	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Isophorone	<190		190	41	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Phenanthrene	100		37	5.1	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Phenol	<190		190	82	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Pyrene	330	F1 *	37	7.3	ug/Kg	☼	03/03/16 16:19	03/06/16 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				03/03/16 16:19	03/06/16 22:51	1
2-Fluorobiphenyl	83		25 - 119				03/03/16 16:19	03/06/16 22:51	1
2-Fluorophenol	96		25 - 110				03/03/16 16:19	03/06/16 22:51	1
Nitrobenzene-d5	83		25 - 115				03/03/16 16:19	03/06/16 22:51	1
Phenol-d5	94		31 - 110				03/03/16 16:19	03/06/16 22:51	1
Terphenyl-d14	199	X *	36 - 134				03/03/16 16:19	03/06/16 22:51	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		03/04/16 14:49	03/05/16 17:25	1
Barium	0.44	J	0.50	0.050	mg/L		03/04/16 14:49	03/05/16 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 17:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 17:25	1
Manganese	0.64		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 17:25	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:25	1
Zinc	0.32	J	0.50	0.020	mg/L		03/04/16 14:49	03/05/16 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Barium	0.61		0.50	0.050	mg/L		03/05/16 11:55	03/07/16 17:26	1
Beryllium	0.0070		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 17:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 17:26	1
Chromium	0.15		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Cobalt	0.033		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Copper	0.11		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Iron	170		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 17:26	1
Lead	0.088		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 17:26	1
Manganese	2.2		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Nickel	0.15		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 17:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-20(0-1)-030216

Lab Sample ID: 500-108241-2

Date Collected: 03/02/16 13:40

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		03/05/16 11:55	03/07/16 17:26	1
Zinc	0.89	B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 17:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.94		0.94	0.19	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Arsenic	5.2		0.47	0.22	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Barium	40		0.47	0.086	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Beryllium	0.47		0.19	0.041	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Cadmium	<0.094		0.094	0.027	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Calcium	9800		9.4	3.0	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Chromium	8.9	B	0.47	0.081	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Cobalt	6.4		0.23	0.053	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Copper	8.8		0.47	0.10	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Iron	12000		9.4	3.6	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Lead	15		0.23	0.12	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Magnesium	5900		4.7	1.9	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Manganese	380		0.47	0.093	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Nickel	17		0.47	0.13	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Potassium	630	B	23	3.8	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Silver	<0.23		0.23	0.055	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Sodium	380		47	6.2	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Vanadium	16		0.23	0.068	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	1
Zinc	38		0.94	0.30	mg/Kg	☼	03/03/16 08:44	03/03/16 19:49	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		03/05/16 16:15	03/07/16 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53		18	9.6	ug/Kg	☼	03/03/16 16:15	03/04/16 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			03/03/16 22:05	1

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216

Lab Sample ID: 500-108241-3

Date Collected: 03/02/16 14:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 14:11	1
Dibromofluoromethane	110		75 - 120		03/03/16 14:11	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 14:11	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216

Lab Sample ID: 500-108241-3

Date Collected: 03/02/16 14:05

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	81	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Acenaphthylene	4.9 J		35	4.7	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Benzo[a]anthracene	16 J		35	4.8	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Benzo[a]pyrene	25 J		35	6.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Benzo[b]fluoranthene	36		35	7.6	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Benzo[g,h,i]perylene	12 J		35	11	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Benzo[k]fluoranthene	14 J		35	10	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Carbazole	<180		180	89	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Chrysene	21 J		35	9.7	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Dibenz(a,h)anthracene	<35		35	6.8	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Fluoranthene	22 J		35	6.6	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216

Lab Sample ID: 500-108241-3

Date Collected: 03/02/16 14:05

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
Indeno[1,2,3-cd]pyrene	16	J	35	9.2	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Isophorone	<180		180	40	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Phenanthrene	9.2	J	35	4.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Phenol	<180		180	79	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Pyrene	23	J	35	7.0	ug/Kg	☼	03/03/16 16:19	03/04/16 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137				03/03/16 16:19	03/04/16 23:09	1
2-Fluorobiphenyl	73		25 - 119				03/03/16 16:19	03/04/16 23:09	1
2-Fluorophenol	93		25 - 110				03/03/16 16:19	03/04/16 23:09	1
Nitrobenzene-d5	67		25 - 115				03/03/16 16:19	03/04/16 23:09	1
Phenol-d5	82		31 - 110				03/03/16 16:19	03/04/16 23:09	1
Terphenyl-d14	82		36 - 134				03/03/16 16:19	03/04/16 23:09	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		03/04/16 14:49	03/05/16 17:32	1
Barium	0.24	J	0.50	0.050	mg/L		03/04/16 14:49	03/05/16 17:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 17:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 17:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 17:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 17:32	1
Manganese	1.1		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 17:32	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:32	1
Zinc	0.29	J	0.50	0.020	mg/L		03/04/16 14:49	03/05/16 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Barium	0.21	J	0.50	0.050	mg/L		03/05/16 11:55	03/07/16 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 17:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 17:33	1
Chromium	0.052		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Cobalt	0.013	J	0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Copper	0.034		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Iron	53		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 17:33	1
Lead	0.060		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 17:33	1
Manganese	0.69		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Nickel	0.044		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 17:33	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216

Lab Sample ID: 500-108241-3

Date Collected: 03/02/16 14:05

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		03/05/16 11:55	03/07/16 17:33	1
Zinc	0.48	J B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 17:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Arsenic	2.0		0.46	0.21	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Barium	20		0.46	0.083	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Beryllium	0.18		0.18	0.039	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Cadmium	0.054	J	0.091	0.026	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Calcium	9500		9.1	2.9	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Chromium	4.7	B	0.46	0.078	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Cobalt	2.4		0.23	0.051	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Copper	3.2		0.46	0.099	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Iron	4700		9.1	3.5	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Lead	11		0.23	0.11	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Magnesium	4900		4.6	1.8	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Manganese	140		0.46	0.090	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Nickel	5.1		0.46	0.12	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Potassium	370	B	23	3.7	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Selenium	<0.46		0.46	0.23	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Sodium	150		46	6.0	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Vanadium	8.1		0.23	0.067	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	1
Zinc	22		0.91	0.29	mg/Kg	☼	03/03/16 08:44	03/03/16 19:54	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		03/05/16 16:15	03/07/16 16:43	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 17:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		16	8.6	ug/Kg	☼	03/03/16 16:15	03/04/16 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			03/03/16 22:21	1

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216D

Lab Sample ID: 500-108241-4

Date Collected: 03/02/16 14:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/03/16 14:37	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 14:37	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/03/16 14:37	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 14:37	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 14:37	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/03/16 14:37	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/03/16 14:37	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/03/16 14:37	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/03/16 14:37	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 14:37	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 14:37	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 14:37	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 14:37	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/03/16 14:37	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/03/16 14:37	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/03/16 14:37	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/03/16 14:37	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/03/16 14:37	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/03/16 14:37	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 14:37	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/03/16 14:37	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/03/16 14:37	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/03/16 14:37	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/03/16 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/03/16 14:37	1
Dibromofluoromethane	108		75 - 120		03/03/16 14:37	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/03/16 14:37	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 14:37	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	☼	03/03/16 16:19	03/04/16 23:38	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216D

Lab Sample ID: 500-108241-4

Date Collected: 03/02/16 14:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Benzo[a]anthracene	29	J	35	4.7	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Benzo[a]pyrene	36		35	6.8	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Benzo[b]fluoranthene	63		35	7.5	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Benzo[g,h,i]perylene	16	J	35	11	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Benzo[k]fluoranthene	24	J	35	10	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Butyl benzyl phthalate	<180		180	66	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Carbazole	<180		180	87	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Chrysene	37		35	9.5	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Dibenz(a,h)anthracene	<35		35	6.7	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Fluoranthene	68		35	6.5	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216D

Lab Sample ID: 500-108241-4

Date Collected: 03/02/16 14:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.0

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	20	J	35	9.0	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Isophorone	<180		180	39	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Phenanthrene	34	J	35	4.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Phenol	<180		180	77	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Pyrene	60		35	6.9	ug/Kg	☼	03/03/16 16:19	03/04/16 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	56		35 - 137				03/03/16 16:19	03/04/16 23:38	1
<i>2-Fluorobiphenyl</i>	72		25 - 119				03/03/16 16:19	03/04/16 23:38	1
<i>2-Fluorophenol</i>	90		25 - 110				03/03/16 16:19	03/04/16 23:38	1
<i>Nitrobenzene-d5</i>	68		25 - 115				03/03/16 16:19	03/04/16 23:38	1
<i>Phenol-d5</i>	83		31 - 110				03/03/16 16:19	03/04/16 23:38	1
<i>Terphenyl-d14</i>	86		36 - 134				03/03/16 16:19	03/04/16 23:38	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		03/04/16 14:49	03/05/16 17:39	1
Barium	0.23	J	0.50	0.050	mg/L		03/04/16 14:49	03/05/16 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 17:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 17:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 17:39	1
Manganese	0.97		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 17:39	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:39	1
Zinc	0.36	J	0.50	0.020	mg/L		03/04/16 14:49	03/05/16 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Barium	0.21	J	0.50	0.050	mg/L		03/05/16 11:55	03/07/16 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 17:56	1
Chromium	0.058		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Cobalt	0.015	J	0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Copper	0.037		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Iron	60		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 17:56	1
Lead	0.064		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 17:56	1
Manganese	0.77		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Nickel	0.051		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 17:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-21(0-1)-030216D

Lab Sample ID: 500-108241-4

Date Collected: 03/02/16 14:05

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 91.0

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		03/05/16 11:55	03/07/16 17:56	1
Zinc	1.5	B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 17:56	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 08:44	03/03/16 19:58	1
Arsenic	2.0		0.52	0.24	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Barium	20		0.52	0.096	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Beryllium	0.18	J	0.21	0.045	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Cadmium	0.044	J	0.10	0.030	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Calcium	8000		10	3.4	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Chromium	5.2	B	0.52	0.090	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Cobalt	2.6		0.26	0.059	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Copper	3.4		0.52	0.11	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Iron	5300		10	4.0	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Lead	11		0.26	0.13	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Magnesium	4600		5.2	2.1	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Manganese	150		0.52	0.10	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Nickel	5.7		0.52	0.14	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Potassium	400	B	26	4.3	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Sodium	160		52	6.9	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Vanadium	9.1		0.26	0.076	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1
Zinc	23		1.0	0.33	mg/Kg	☼	03/03/16 08:44	03/03/16 19:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 16:44	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		03/05/16 16:15	03/07/16 17:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		16	8.3	ug/Kg	☼	03/03/16 16:15	03/04/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			03/03/16 22:28	1

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-23(0-1)-030216

Lab Sample ID: 500-108241-6

Date Collected: 03/02/16 14:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/03/16 15:29	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 15:29	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/03/16 15:29	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 15:29	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 15:29	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/03/16 15:29	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 15:29	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 15:29	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/03/16 15:29	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/03/16 15:29	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 15:29	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/03/16 15:29	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 15:29	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/03/16 15:29	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/03/16 15:29	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/16 15:29	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/16 15:29	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/03/16 15:29	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/03/16 15:29	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 15:29	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/03/16 15:29	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/03/16 15:29	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/03/16 15:29	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/03/16 15:29	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/03/16 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/03/16 15:29	1
Dibromofluoromethane	109		75 - 120		03/03/16 15:29	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/03/16 15:29	1
Toluene-d8 (Surr)	105		75 - 122		03/03/16 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-23(0-1)-030216

Lab Sample ID: 500-108241-6

Date Collected: 03/02/16 14:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Acenaphthylene	20	J	37	4.9	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Anthracene	29	J	37	6.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Benzo[a]anthracene	170		37	5.0	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Benzo[a]pyrene	190	*	37	7.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Benzo[b]fluoranthene	330	*	37	8.0	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Benzo[g,h,i]perylene	67	*	37	12	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Benzo[k]fluoranthene	130	*	37	11	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Carbazole	<190		190	93	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Chrysene	190		37	10	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Dibenz(a,h)anthracene	16	J *	37	7.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Fluoranthene	410		37	6.9	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Fluorene	5.6	J	37	5.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-23(0-1)-030216

Lab Sample ID: 500-108241-6

Date Collected: 03/02/16 14:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	91	*	37	9.7	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Isophorone	<190		190	42	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Phenanthrene	190		37	5.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Phenol	<190		190	83	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Pyrene	390		37	7.4	ug/Kg	☼	03/03/16 16:19	03/05/16 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		35 - 137				03/03/16 16:19	03/05/16 00:07	1
2-Fluorobiphenyl	66		25 - 119				03/03/16 16:19	03/05/16 00:07	1
2-Fluorophenol	79		25 - 110				03/03/16 16:19	03/05/16 00:07	1
Nitrobenzene-d5	59		25 - 115				03/03/16 16:19	03/05/16 00:07	1
Phenol-d5	72		31 - 110				03/03/16 16:19	03/05/16 00:07	1
Terphenyl-d14	91		36 - 134				03/03/16 16:19	03/05/16 00:07	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		03/04/16 14:49	03/05/16 17:52	1
Barium	0.51		0.50	0.050	mg/L		03/04/16 14:49	03/05/16 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 17:52	1
Manganese	1.2		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 17:52	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 17:52	1
Zinc	0.23 J		0.50	0.020	mg/L		03/04/16 14:49	03/05/16 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.069		0.050	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Barium	0.82		0.50	0.050	mg/L		03/05/16 11:55	03/07/16 18:09	1
Beryllium	0.0083		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 18:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 18:09	1
Chromium	0.19		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Cobalt	0.039		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Copper	0.13		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Iron	200		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 18:09	1
Lead	0.14		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 18:09	1
Manganese	2.4		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Nickel	0.14		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 18:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-23(0-1)-030216

Lab Sample ID: 500-108241-6

Date Collected: 03/02/16 14:30

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 86.4

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		03/05/16 11:55	03/07/16 18:09	1
Zinc	0.67	B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 18:09	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 08:44	03/03/16 20:07	1
Arsenic	5.7		0.53	0.25	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Barium	61		0.53	0.098	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Beryllium	0.42		0.21	0.046	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Calcium	4200		11	3.4	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Chromium	12	B	0.53	0.092	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Cobalt	6.7		0.27	0.060	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Copper	9.4		0.53	0.12	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Iron	13000		11	4.1	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Lead	10		0.27	0.13	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Magnesium	3500		5.3	2.2	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Manganese	440		0.53	0.11	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Nickel	13		0.53	0.14	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Potassium	650	B	27	4.4	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Sodium	1200		53	7.1	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Vanadium	22		0.27	0.078	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1
Zinc	35		1.1	0.34	mg/Kg	☼	03/03/16 08:44	03/03/16 20:07	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 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		03/05/16 16:15	03/07/16 17:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		18	9.4	ug/Kg	☼	03/03/16 16:15	03/04/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			03/03/16 22:44	1

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-25(0-1)-030216

Lab Sample ID: 500-108241-8

Date Collected: 03/02/16 14:55

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/03/16 16:22	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 16:22	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/03/16 16:22	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:22	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:22	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/03/16 16:22	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/03/16 16:22	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/03/16 16:22	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/03/16 16:22	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/03/16 16:22	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 16:22	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 16:22	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 16:22	1
2-Hexanone	<6.0		6.0	1.8	ug/Kg	☼		03/03/16 16:22	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/03/16 16:22	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 16:22	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/03/16 16:22	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/03/16 16:22	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/03/16 16:22	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/03/16 16:22	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/03/16 16:22	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/03/16 16:22	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/03/16 16:22	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/03/16 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		03/03/16 16:22	1
Dibromofluoromethane	108		75 - 120		03/03/16 16:22	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/03/16 16:22	1
Toluene-d8 (Surr)	107		75 - 122		03/03/16 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	<200		200	42	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-25(0-1)-030216

Lab Sample ID: 500-108241-8

Date Collected: 03/02/16 14:55

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Benzo[a]anthracene	14	J	39	5.3	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Benzo[a]pyrene	15	J*	39	7.6	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Benzo[b]fluoranthene	25	J*	39	8.4	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Benzo[k]fluoranthene	<39	*	39	12	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Carbazole	<200		200	98	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Chrysene	26	J	39	11	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Fluoranthene	30	J	39	7.2	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-25(0-1)-030216

Lab Sample ID: 500-108241-8

Date Collected: 03/02/16 14:55

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Isophorone	<200		200	44	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Phenanthrene	35	J	39	5.4	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Phenol	<200		200	87	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1
Pyrene	34	J	39	7.8	ug/Kg	☼	03/03/16 16:19	03/05/16 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137	03/03/16 16:19	03/05/16 00:36	1
2-Fluorobiphenyl	71		25 - 119	03/03/16 16:19	03/05/16 00:36	1
2-Fluorophenol	89		25 - 110	03/03/16 16:19	03/05/16 00:36	1
Nitrobenzene-d5	66		25 - 115	03/03/16 16:19	03/05/16 00:36	1
Phenol-d5	82		31 - 110	03/03/16 16:19	03/05/16 00:36	1
Terphenyl-d14	107		36 - 134	03/03/16 16:19	03/05/16 00:36	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		03/04/16 14:49	03/05/16 18:38	1
Barium	0.51		0.50	0.050	mg/L		03/04/16 14:49	03/05/16 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/16 14:49	03/05/16 18:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/16 14:49	03/05/16 18:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Copper	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Iron	<0.40		0.40	0.20	mg/L		03/04/16 14:49	03/05/16 18:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/16 14:49	03/05/16 18:38	1
Manganese	0.40		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/16 14:49	03/05/16 18:38	1
Silver	<0.025		0.025	0.010	mg/L		03/04/16 14:49	03/05/16 18:38	1
Zinc	0.11	J	0.50	0.020	mg/L		03/04/16 14:49	03/05/16 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Barium	0.46	J	0.50	0.050	mg/L		03/05/16 11:55	03/07/16 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/16 11:55	03/07/16 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/16 11:55	03/07/16 18:23	1
Chromium	0.075		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Copper	0.038		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Iron	68		0.40	0.20	mg/L		03/05/16 11:55	03/07/16 18:23	1
Lead	0.059		0.0075	0.0075	mg/L		03/05/16 11:55	03/07/16 18:23	1
Manganese	1.7		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Nickel	0.048		0.025	0.010	mg/L		03/05/16 11:55	03/07/16 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/05/16 11:55	03/07/16 18:23	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108241-1

Client Sample ID: KR94-25(0-1)-030216

Lab Sample ID: 500-108241-8

Date Collected: 03/02/16 14:55

Matrix: Solid

Date Received: 03/02/16 16:25

Percent Solids: 83.9

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		03/05/16 11:55	03/07/16 18:23	1
Zinc	0.26	J B	0.50	0.020	mg/L		03/05/16 11:55	03/07/16 18:23	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 08:44	03/03/16 20:17	1
Arsenic	4.0		0.58	0.27	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Barium	57		0.58	0.11	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Beryllium	0.34		0.23	0.051	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Cadmium	0.14		0.12	0.034	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Calcium	27000		12	3.8	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Chromium	7.6	B	0.58	0.10	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Cobalt	6.0		0.29	0.066	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Copper	6.2		0.58	0.13	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Iron	9200		12	4.5	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Lead	23		0.29	0.15	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Magnesium	17000		5.8	2.4	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Manganese	530		0.58	0.12	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Nickel	9.7		0.58	0.16	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Potassium	660	B	29	4.8	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Sodium	500		58	7.7	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Thallium	0.31	J	0.58	0.29	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Vanadium	14		0.29	0.085	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1
Zinc	38		1.2	0.37	mg/Kg	☼	03/03/16 08:44	03/03/16 20:17	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/05/16 16:15	03/07/16 17:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		19	10	ug/Kg	☼	03/03/16 16:15	03/04/16 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		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: 500-108241-1

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.
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control 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.
F1	MS and/or MSD Recovery is outside acceptance 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.
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: 500-108241-1

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 _____
 Contact: S. Balasubramanian Contact: same
 Company: Weston Solutions Inc Company: _____
 Address: 300 Plaza Circle, Ste 202 Address: _____
 Address: Nundelein, IL 60060 Address: _____
 Phone: 224-864-7250 Phone: _____
 Fax: 224-864-7236 Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108241
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: 5.5

Client: <u>Weston Solutions</u>		Client Project # <u>02056-0440400930</u>		Preservative		Parameter					 500-108241 COC Preservative Key 10l to 4° Cool to 4° Cool to 4° Cool to 4° Cool to 4°
Project Name <u>IDOT CH0 - IL 113</u>		Lab Project # _____		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TEUP/SRP METALS	PH	
Project Location/State <u>Braidwood, IL</u>		Lab PM <u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time							Comments
1		KR94-19(0-1)-030216	3-2-16	1330	2S	X	X	X	X	X	
2		KR94-20(0-1)-030216		1340							
3		KR94-21(0-1)-030216		1405							
4		KR94-21(0-1)-030216D		1405							
5		KR94-22(0-1)-030216		1420							
6		KR94-23(0-1)-030216		1430							
7		KR94-24(0-1)-030216		1442							
8		KR94-25(0-1)-030216		1455							
9		KR94-26(0-1)-030216	3-2-16	1510	2S	X	X	X	X	X	
10		LAST ITEM									MS

Turnaround Time Required (Business Days)
 Requested Due Date: 03/02/16
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other 25 business
 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>3-2-2016</u> Time: <u>1531</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/2/16</u> Time: <u>1530</u>	Lab Courier: <u>TA-CM1</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/2/16</u> Time: <u>16:25</u>	Received By: <u>[Signature]</u> Company: <u>TA-GHT</u> Date: <u>03/02/16</u> Time: <u>16:25</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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108391-1
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 8:14:52 AM

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

LINKS

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results through
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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: 500-108391-1

Client Sample ID: KR94-28(0-1)-030416

Lab Sample ID: 500-108391-2

Date Collected: 03/04/16 08:58

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼		03/07/16 13:11	1
Benzene	<6.1		6.1	1.3	ug/Kg	☼		03/07/16 13:11	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/07/16 13:11	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/07/16 13:11	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/07/16 13:11	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/07/16 13:11	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
Chloroethane	<6.1		6.1	2.5	ug/Kg	☼		03/07/16 13:11	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/07/16 13:11	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/07/16 13:11	1
1,1-Dichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		03/07/16 13:11	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/07/16 13:11	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/07/16 13:11	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/07/16 13:11	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/07/16 13:11	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/07/16 13:11	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/07/16 13:11	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/07/16 13:11	1
methyl isobutyl ketone	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.96	ug/Kg	☼		03/07/16 13:11	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/07/16 13:11	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/07/16 13:11	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/07/16 13:11	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/07/16 13:11	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/07/16 13:11	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/07/16 13:11	1
Vinyl chloride	<6.1		6.1	1.4	ug/Kg	☼		03/07/16 13:11	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/07/16 13:11	1
Dibromofluoromethane	109		75 - 120		03/07/16 13:11	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/07/16 13:11	1
Toluene-d8 (Surr)	108		75 - 122		03/07/16 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-28(0-1)-030416

Lab Sample ID: 500-108391-2

Date Collected: 03/04/16 08:58

Matrix: Solid

Date Received: 03/04/16 16:50

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	<380		380	87	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Acenaphthylene	17	J	38	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Anthracene	24	J	38	6.4	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Benzo[a]anthracene	120		38	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Benzo[a]pyrene	140	*	38	7.4	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Benzo[b]fluoranthene	240	*	38	8.3	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Benzo[g,h,i]perylene	62	*	38	12	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Benzo[k]fluoranthene	87	*	38	11	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Chrysene	140		38	10	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Fluoranthene	250		38	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-28(0-1)-030416

Lab Sample ID: 500-108391-2

Date Collected: 03/04/16 08:58

Matrix: Solid

Date Received: 03/04/16 16:50

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	53	*	38	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Phenanthrene	98		38	5.3	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Pyrene	260		38	7.6	ug/Kg	☼	03/07/16 07:10	03/08/16 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		35 - 137				03/07/16 07:10	03/08/16 15:40	1
2-Fluorobiphenyl	107		25 - 119				03/07/16 07:10	03/08/16 15:40	1
2-Fluorophenol	102		25 - 110				03/07/16 07:10	03/08/16 15:40	1
Nitrobenzene-d5	108		25 - 115				03/07/16 07:10	03/08/16 15:40	1
Phenol-d5	96		31 - 110				03/07/16 07:10	03/08/16 15:40	1
Terphenyl-d14	139	X	36 - 134				03/07/16 07:10	03/08/16 15:40	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 15:25	03/10/16 13:57	1
Barium	0.46	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 13:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 13:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 13:57	1
Manganese	1.0		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 13:57	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 13:57	1
Zinc	0.49	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Barium	0.31	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:20	1
Chromium	0.032		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Copper	0.023	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Iron	28		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:20	1
Lead	0.019		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:20	1
Manganese	0.41		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Nickel	0.020	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-28(0-1)-030416

Lab Sample ID: 500-108391-2

Date Collected: 03/04/16 08:58

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 15:30	03/10/16 21:20	1
Zinc	0.35	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:20	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	☼	03/07/16 09:39	03/07/16 20:52	1
Arsenic	3.2		0.58	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Barium	50		0.58	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Beryllium	0.27		0.23	0.050	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Cadmium	0.040	J	0.12	0.034	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Calcium	230000	B	120	37	mg/Kg	☼	03/07/16 09:39	03/08/16 13:17	10
Chromium	6.7	B	0.58	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Cobalt	6.0		0.29	0.066	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Copper	5.2		0.58	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Iron	8100	B	12	4.5	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Lead	12		0.29	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Magnesium	140000		58	24	mg/Kg	☼	03/07/16 09:39	03/08/16 13:17	10
Manganese	500	B	0.58	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Nickel	8.6	B	0.58	0.16	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Potassium	510	B	29	4.7	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Selenium	0.42	J	0.58	0.29	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Sodium	500		58	7.7	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Thallium	0.32	J	0.58	0.29	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Vanadium	13		0.29	0.085	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1
Zinc	27		1.2	0.37	mg/Kg	☼	03/07/16 09:39	03/07/16 20:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 23:13	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	03/11/16 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38	B	18	9.5	ug/Kg	☼	03/07/16 19:00	03/11/16 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			03/07/16 17:49	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-29(0-1)-030416

Lab Sample ID: 500-108391-3

Date Collected: 03/04/16 09:15

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 80.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/07/16 13:37	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/07/16 13:37	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/07/16 13:37	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/07/16 13:37	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/07/16 13:37	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/07/16 13:37	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/07/16 13:37	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/07/16 13:37	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/07/16 13:37	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/07/16 13:37	1
1,1-Dichloroethene	<6.2		6.2	2.3	ug/Kg	☼		03/07/16 13:37	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/07/16 13:37	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/07/16 13:37	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/07/16 13:37	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/07/16 13:37	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/07/16 13:37	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/07/16 13:37	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/07/16 13:37	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/07/16 13:37	1
Toluene	<6.2		6.2	2.2	ug/Kg	☼		03/07/16 13:37	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/07/16 13:37	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/07/16 13:37	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/07/16 13:37	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/07/16 13:37	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/07/16 13:37	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/07/16 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/07/16 13:37	1
Dibromofluoromethane	106		75 - 120		03/07/16 13:37	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 13:37	1
Toluene-d8 (Surr)	108		75 - 122		03/07/16 13:37	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 07:10	03/08/16 16:04	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-29(0-1)-030416

Lab Sample ID: 500-108391-3

Date Collected: 03/04/16 09:15

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,4-Dinitrophenol	<800		800	690	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
4-Nitrophenol	<800		800	370	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Acenaphthylene	31	J	39	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Anthracene	17	J	39	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Benzo[a]anthracene	110		39	5.3	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Benzo[a]pyrene	150	*	39	7.6	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Benzo[b]fluoranthene	270	*	39	8.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Benzo[g,h,i]perylene	59	*	39	13	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Benzo[k]fluoranthene	89	*	39	12	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Carbazole	<200		200	98	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Chrysene	110		39	11	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Fluoranthene	170		39	7.3	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Hexachlorobenzene	<80		80	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-29(0-1)-030416

Lab Sample ID: 500-108391-3

Date Collected: 03/04/16 09:15

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 80.8

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	53	*	39	10	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Isophorone	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Phenanthrene	68		39	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Phenol	<200		200	88	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Pyrene	210		39	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		35 - 137				03/07/16 07:10	03/08/16 16:04	1
2-Fluorobiphenyl	93		25 - 119				03/07/16 07:10	03/08/16 16:04	1
2-Fluorophenol	98		25 - 110				03/07/16 07:10	03/08/16 16:04	1
Nitrobenzene-d5	94		25 - 115				03/07/16 07:10	03/08/16 16:04	1
Phenol-d5	49		31 - 110				03/07/16 07:10	03/08/16 16:04	1
Terphenyl-d14	141	X	36 - 134				03/07/16 07:10	03/08/16 16:04	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 15:25	03/10/16 14:04	1
Barium	0.52		0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:04	1
Manganese	0.42		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:04	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:04	1
Zinc	0.19	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.089		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Barium	1.0		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:27	1
Beryllium	0.0097		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:27	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:27	1
Chromium	0.21		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Cobalt	0.041		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Copper	0.14		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Iron	240		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:27	1
Lead	0.12		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:27	1
Manganese	2.9		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Nickel	0.17		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-29(0-1)-030416

Lab Sample ID: 500-108391-3

Date Collected: 03/04/16 09:15

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 80.8

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		03/09/16 15:30	03/10/16 21:27	1
Zinc	0.96	B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:27	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	☼	03/07/16 09:39	03/07/16 20:57	1
Arsenic	4.9		0.56	0.26	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Barium	55		0.56	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Beryllium	0.45		0.23	0.049	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Cadmium	0.072	J	0.11	0.033	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Calcium	27000	B	11	3.6	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Chromium	11	B	0.56	0.097	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Cobalt	7.8		0.28	0.064	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Copper	7.8		0.56	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Iron	12000	B	11	4.4	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Lead	21		0.28	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Magnesium	18000		5.6	2.3	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Manganese	380	B	0.56	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Nickel	13	B	0.56	0.15	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Potassium	700	B	28	4.6	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Sodium	1000		56	7.5	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Vanadium	20		0.28	0.082	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	1
Zinc	57		1.1	0.36	mg/Kg	☼	03/07/16 09:39	03/07/16 20:57	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	03/10/16 23:19	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		03/09/16 17:30	03/11/16 11:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	51	B	20	10	ug/Kg	☼	03/07/16 19:00	03/11/16 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			03/07/16 17:52	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-30(0-1)-030416

Lab Sample ID: 500-108391-4

Date Collected: 03/04/16 09:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 84.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/07/16 14:05	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 14:05	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/07/16 14:05	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 14:05	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 14:05	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 14:05	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 14:05	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/07/16 14:05	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/07/16 14:05	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 14:05	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 14:05	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/07/16 14:05	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 14:05	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/07/16 14:05	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 14:05	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 14:05	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 14:05	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 14:05	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/07/16 14:05	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/07/16 14:05	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 14:05	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 14:05	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/07/16 14:05	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 14:05	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 14:05	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 14:05	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 14:05	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/07/16 14:05	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 14:05	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 14:05	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/07/16 14:05	1
Dibromofluoromethane	107		75 - 120		03/07/16 14:05	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/07/16 14:05	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-30(0-1)-030416

Lab Sample ID: 500-108391-4

Date Collected: 03/04/16 09:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Methylphenol	<200		200	62	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Acenaphthylene	19	J	39	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Anthracene	32	J	39	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Benzo[a]anthracene	140		39	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Benzo[a]pyrene	200	*	39	7.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Benzo[b]fluoranthene	310	*	39	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Benzo[g,h,i]perylene	86	*	39	13	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Benzo[k]fluoranthene	130	*	39	11	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Carbazole	<200		200	97	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Chrysene	150		39	11	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Dibenz(a,h)anthracene	<39	*	39	7.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Fluoranthene	220		39	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-30(0-1)-030416

Lab Sample ID: 500-108391-4

Date Collected: 03/04/16 09:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	75	*	39	10	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Isophorone	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Pentachlorophenol	<790		790	620	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Phenanthrene	56		39	5.4	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Phenol	<200		200	87	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Pyrene	270		39	7.7	ug/Kg	☼	03/07/16 07:10	03/08/16 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/07/16 07:10	03/08/16 16:28	1
2-Fluorobiphenyl	101		25 - 119				03/07/16 07:10	03/08/16 16:28	1
2-Fluorophenol	106		25 - 110				03/07/16 07:10	03/08/16 16:28	1
Nitrobenzene-d5	101		25 - 115				03/07/16 07:10	03/08/16 16:28	1
Phenol-d5	81		31 - 110				03/07/16 07:10	03/08/16 16:28	1
Terphenyl-d14	154	X	36 - 134				03/07/16 07:10	03/08/16 16:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Barium	0.45	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:11	1
Manganese	0.34		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:11	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:11	1
Zinc	0.21	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Barium	1.1		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:34	1
Beryllium	0.011		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:34	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:34	1
Chromium	0.26		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Cobalt	0.048		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Copper	0.19		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Iron	280		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:34	1
Lead	0.12		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:34	1
Manganese	2.8		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Nickel	0.18		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:34	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-30(0-1)-030416

Lab Sample ID: 500-108391-4

Date Collected: 03/04/16 09:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 84.8

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		03/09/16 15:30	03/10/16 21:34	1
Zinc	0.75	B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:34	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	☼	03/07/16 09:39	03/07/16 21:02	1
Arsenic	6.5		0.55	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Barium	66		0.55	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Beryllium	0.54		0.22	0.047	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Calcium	4300	B	11	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Chromium	12	B	0.55	0.094	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Cobalt	8.4		0.27	0.062	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Copper	11		0.55	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Iron	17000	B	11	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Lead	14		0.27	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Magnesium	3500		5.5	2.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Manganese	420	B	0.55	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Nickel	20	B	0.55	0.15	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Potassium	710	B	27	4.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Selenium	0.33	J	0.55	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Sodium	1100		55	7.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Vanadium	20		0.27	0.080	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1
Zinc	52		1.1	0.35	mg/Kg	☼	03/07/16 09:39	03/07/16 21:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 23:21	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		03/09/16 17:30	03/11/16 11:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	41	B	17	8.9	ug/Kg	☼	03/07/16 19:00	03/11/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			03/07/16 17:56	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416

Lab Sample ID: 500-108391-5

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 89.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/07/16 14:31	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:31	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/07/16 14:31	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 14:31	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 14:31	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:31	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/07/16 14:31	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/07/16 14:31	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/07/16 14:31	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:31	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 14:31	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 14:31	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 14:31	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/07/16 14:31	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/07/16 14:31	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:31	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
1,1,1,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/07/16 14:31	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:31	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/07/16 14:31	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 14:31	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 14:31	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:31	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 14:31	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:31	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 14:31	1
Dibromofluoromethane	107		75 - 120		03/07/16 14:31	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/07/16 14:31	1
Toluene-d8 (Surr)	109		75 - 122		03/07/16 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416

Lab Sample ID: 500-108391-5

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 89.6

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	82	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Benzo[a]pyrene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Benzo[b]fluoranthene	<36 *		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Chrysene	<36		36	9.8	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Dibenz(a,h)anthracene	<36 *		36	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416

Lab Sample ID: 500-108391-5

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 89.6

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	9.3	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1
Pyrene	12	J	36	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137	03/07/16 07:10	03/08/16 16:52	1
2-Fluorobiphenyl	101		25 - 119	03/07/16 07:10	03/08/16 16:52	1
2-Fluorophenol	92		25 - 110	03/07/16 07:10	03/08/16 16:52	1
Nitrobenzene-d5	102		25 - 115	03/07/16 07:10	03/08/16 16:52	1
Phenol-d5	80		31 - 110	03/07/16 07:10	03/08/16 16:52	1
Terphenyl-d14	175	X	36 - 134	03/07/16 07:10	03/08/16 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		03/09/16 15:25	03/10/16 14:17	1
Barium	0.12	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:17	1
Manganese	0.48		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:17	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:17	1
Zinc	0.092	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 14:17	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		03/09/16 15:30	03/10/16 21:40	1
Barium	0.20	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:40	1
Chromium	0.010	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:40	1
Copper	0.015	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:40	1
Iron	6.6		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:40	1
Manganese	0.17		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416

Lab Sample ID: 500-108391-5

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 89.6

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		03/09/16 15:30	03/10/16 21:40	1
Zinc	0.39	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:40	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.90		0.90	0.19	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Arsenic	1.4		0.45	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Barium	13		0.45	0.083	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Beryllium	0.089	J	0.18	0.039	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Cadmium	0.033	J	0.090	0.026	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Calcium	3800	B	9.0	2.9	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Chromium	4.3	B	0.45	0.078	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Cobalt	1.8		0.23	0.051	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Copper	2.2		0.45	0.098	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Iron	4000	B	9.0	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Lead	3.8		0.23	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Magnesium	2500		4.5	1.8	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Manganese	110	B	0.45	0.089	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Nickel	4.3	B	0.45	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Potassium	270	B	23	3.7	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Sodium	310		45	6.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Vanadium	7.8		0.23	0.066	mg/Kg	☼	03/07/16 09:39	03/07/16 21:14	1
Zinc	12		0.90	0.29	mg/Kg	☼	03/07/16 09:39	03/08/16 13:22	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/10/16 23:23	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	03/11/16 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J B	17	9.2	ug/Kg	☼	03/07/16 19:00	03/11/16 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.94		0.200	0.200	SU			03/08/16 14:02	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416D

Lab Sample ID: 500-108391-6

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼		03/07/16 14:57	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:57	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/07/16 14:57	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:57	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:57	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:57	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/07/16 14:57	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/07/16 14:57	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/07/16 14:57	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:57	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 14:57	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 14:57	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 14:57	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/07/16 14:57	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/07/16 14:57	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 14:57	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/07/16 14:57	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 14:57	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/07/16 14:57	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 14:57	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 14:57	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 14:57	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 14:57	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 14:57	1
Vinyl chloride	<5.6		5.6	1.3	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)	103		70 - 122		03/07/16 14:57	1
Dibromofluoromethane	107		75 - 120		03/07/16 14:57	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		03/07/16 14:57	1
Toluene-d8 (Surr)	108		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	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416D

Lab Sample ID: 500-108391-6

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

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	<360		360	83	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Benzo[a]anthracene	<36 *		36	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Benzo[a]pyrene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Benzo[b]fluoranthene	<36 *		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Chrysene	<36 *		36	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416D

Lab Sample ID: 500-108391-6

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

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	<36	*	36	9.4	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1
Pyrene	7.3	J *	36	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137	03/07/16 07:10	03/08/16 17:17	1
2-Fluorobiphenyl	93		25 - 119	03/07/16 07:10	03/08/16 17:17	1
2-Fluorophenol	85		25 - 110	03/07/16 07:10	03/08/16 17:17	1
Nitrobenzene-d5	93		25 - 115	03/07/16 07:10	03/08/16 17:17	1
Phenol-d5	71		31 - 110	03/07/16 07:10	03/08/16 17:17	1
Terphenyl-d14	181	X *	36 - 134	03/07/16 07:10	03/08/16 17:17	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		03/09/16 15:25	03/10/16 14:24	1
Barium	0.11	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:24	1
Manganese	0.37		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:24	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:24	1
Zinc	0.27	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Barium	0.19	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:47	1
Chromium	0.014	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Copper	0.013	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Iron	9.5		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:47	1
Lead	0.0081		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:47	1
Manganese	0.24		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Nickel	0.011	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-31(0-1)-030416D

Lab Sample ID: 500-108391-6

Date Collected: 03/04/16 09:55

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 15:30	03/10/16 21:47	1
Zinc	0.18	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.85		0.85	0.18	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Arsenic	1.9		0.42	0.20	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Barium	21		0.42	0.078	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Beryllium	0.15	J	0.17	0.037	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Cadmium	0.045	J	0.085	0.025	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Calcium	4300	B	8.5	2.7	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Chromium	5.2	B	0.42	0.073	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Cobalt	2.7		0.21	0.048	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Copper	3.4		0.42	0.092	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Iron	5000	B	8.5	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Lead	4.8		0.21	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Magnesium	2900		4.2	1.7	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Manganese	200	B	0.42	0.084	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Nickel	5.5	B	0.42	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Potassium	340	B	21	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Selenium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Sodium	380		42	5.6	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Vanadium	9.8		0.21	0.062	mg/Kg	☼	03/07/16 09:39	03/07/16 21:18	1
Zinc	16		0.85	0.27	mg/Kg	☼	03/07/16 09:39	03/08/16 13:27	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		03/09/16 17:30	03/10/16 23:25	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	03/11/16 10:00	1

Method: 7471B - Mercury (CVAA)

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

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			03/08/16 14:04	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-32(0-1)-030416

Lab Sample ID: 500-108391-7

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/07/16 15:23	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 15:23	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/07/16 15:23	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 15:23	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 15:23	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 15:23	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/07/16 15:23	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/07/16 15:23	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/07/16 15:23	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 15:23	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 15:23	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/07/16 15:23	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 15:23	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/07/16 15:23	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/07/16 15:23	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 15:23	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/07/16 15:23	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/07/16 15:23	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 15:23	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/07/16 15:23	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 15:23	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/07/16 15:23	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 15:23	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 15:23	1
Dibromofluoromethane	107		75 - 120		03/07/16 15:23	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/07/16 15:23	1
Toluene-d8 (Surr)	108		75 - 122		03/07/16 15:23	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 07:10	03/08/16 17:41	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-32(0-1)-030416

Lab Sample ID: 500-108391-7

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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	☼	03/07/16 07:10	03/08/16 17:41	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
3,3'-Dichlorobenzidine	<180 *		180	50	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Acenaphthylene	25 J		36	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Anthracene	11 J		36	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Benzo[a]anthracene	120 *		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Benzo[a]pyrene	160 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Benzo[b]fluoranthene	310 *		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Benzo[g,h,i]perylene	70 *		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Benzo[k]fluoranthene	140 *		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Butyl benzyl phthalate	<180 *		180	68	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Chrysene	180 *		36	9.8	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Fluoranthene	290		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-32(0-1)-030416

Lab Sample ID: 500-108391-7

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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	64	*	36	9.3	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Phenanthrene	100		36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Pyrene	480	*	36	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/07/16 07:10	03/08/16 17:41	1
2-Fluorobiphenyl	102		25 - 119				03/07/16 07:10	03/08/16 17:41	1
2-Fluorophenol	92		25 - 110				03/07/16 07:10	03/08/16 17:41	1
Nitrobenzene-d5	104		25 - 115				03/07/16 07:10	03/08/16 17:41	1
Phenol-d5	67		31 - 110				03/07/16 07:10	03/08/16 17:41	1
Terphenyl-d14	212	X *	36 - 134				03/07/16 07:10	03/08/16 17:41	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		03/09/16 15:25	03/10/16 14:31	1
Barium	0.35	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:31	1
Manganese	1.3		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:31	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:31	1
Zinc	0.098	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 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		03/09/16 15:30	03/10/16 21:54	1
Barium	0.23	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 21:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 21:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 21:54	1
Chromium	0.012	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:54	1
Copper	0.011	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:54	1
Iron	7.2		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 21:54	1
Lead	0.011		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 21:54	1
Manganese	0.22		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 21:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 21:54	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-32(0-1)-030416

Lab Sample ID: 500-108391-7

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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		03/09/16 15:30	03/10/16 21:54	1
Zinc	0.21	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 21:54	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	☼	03/07/16 09:39	03/07/16 21:22	1
Arsenic	1.3		0.51	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Barium	31		0.51	0.093	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Beryllium	0.16	J	0.20	0.044	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Cadmium	0.042	J	0.10	0.029	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Calcium	21000	B	10	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Chromium	4.3	B	0.51	0.088	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Cobalt	2.3		0.25	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Copper	2.2		0.51	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Iron	4000	B	10	3.9	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Lead	8.3		0.25	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Magnesium	13000		5.1	2.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Manganese	220	B	0.51	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Nickel	3.9	B	0.51	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Potassium	320	B	25	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Sodium	290		51	6.7	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Vanadium	7.6		0.25	0.074	mg/Kg	☼	03/07/16 09:39	03/07/16 21:22	1
Zinc	16		1.0	0.32	mg/Kg	☼	03/07/16 09:39	03/08/16 13:31	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		03/09/16 17:30	03/10/16 23:27	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		03/09/16 17:30	03/11/16 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17	B	16	8.6	ug/Kg	☼	03/07/16 19:00	03/11/16 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			03/08/16 14:09	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-33(0-1)-030416

Lab Sample ID: 500-108391-8

Date Collected: 03/04/16 10:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/07/16 15:50	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 15:50	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 15:50	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 15:50	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 15:50	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 15:50	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 15:50	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 15:50	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 15:50	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 15:50	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 15:50	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 15:50	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 15:50	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 15:50	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 15:50	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 15:50	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 15:50	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 15:50	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 15:50	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 15:50	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 15:50	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 15:50	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 15:50	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 15:50	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/07/16 15:50	1
Dibromofluoromethane	108		75 - 120		03/07/16 15:50	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/07/16 15:50	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-33(0-1)-030416

Lab Sample ID: 500-108391-8

Date Collected: 03/04/16 10:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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	83	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Benzo[a]anthracene	12 J *		36	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Benzo[a]pyrene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Benzo[b]fluoranthene	<36 *		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Benzo[g,h,i]perylene	<36 *		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Benzo[k]fluoranthene	<36 *		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Chrysene	16 J *		36	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Fluoranthene	20 J		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-33(0-1)-030416

Lab Sample ID: 500-108391-8

Date Collected: 03/04/16 10:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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	9.4	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Phenanthrene	19	J	36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1
Pyrene	51	*	36	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		35 - 137	03/07/16 07:10	03/08/16 18:05	1
2-Fluorobiphenyl	101		25 - 119	03/07/16 07:10	03/08/16 18:05	1
2-Fluorophenol	90		25 - 110	03/07/16 07:10	03/08/16 18:05	1
Nitrobenzene-d5	101		25 - 115	03/07/16 07:10	03/08/16 18:05	1
Phenol-d5	49		31 - 110	03/07/16 07:10	03/08/16 18:05	1
Terphenyl-d14	211	X *	36 - 134	03/07/16 07:10	03/08/16 18:05	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		03/09/16 15:25	03/10/16 14:38	1
Barium	0.32	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 14:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 14:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 14:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 14:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 14:38	1
Manganese	0.49		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 14:38	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 14:38	1
Zinc	0.085	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 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		03/09/16 15:30	03/10/16 22:17	1
Barium	0.26	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:17	1
Copper	0.011	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:17	1
Iron	1.1		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:17	1
Manganese	0.019	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-33(0-1)-030416

Lab Sample ID: 500-108391-8

Date Collected: 03/04/16 10:55

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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		03/09/16 15:30	03/10/16 22:17	1
Zinc	0.30	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:17	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	☼	03/07/16 09:39	03/07/16 21:27	1
Arsenic	1.3		0.52	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Barium	25		0.52	0.095	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Beryllium	0.23		0.21	0.045	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Cadmium	0.040	J	0.10	0.030	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Calcium	18000	B	10	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Chromium	7.0	B	0.52	0.089	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Cobalt	3.2		0.26	0.059	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Copper	4.8		0.52	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Iron	6300	B	10	4.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Lead	7.8		0.26	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Magnesium	11000		5.2	2.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Manganese	83	B	0.52	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Nickel	6.7	B	0.52	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Potassium	470	B	26	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Sodium	480		52	6.8	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Vanadium	13		0.26	0.076	mg/Kg	☼	03/07/16 09:39	03/07/16 21:27	1
Zinc	20		1.0	0.33	mg/Kg	☼	03/07/16 09:39	03/08/16 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		03/09/16 17:30	03/10/16 23:29	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		03/09/16 17:30	03/11/16 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27	B	19	9.9	ug/Kg	☼	03/07/16 19:00	03/11/16 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.87		0.200	0.200	SU			03/08/16 14:11	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-34(0-1)-030416

Lab Sample ID: 500-108391-9

Date Collected: 03/04/16 11:15

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼		03/07/16 16:16	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 16:16	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/07/16 16:16	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 16:16	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 16:16	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 16:16	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 16:16	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/07/16 16:16	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 16:16	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 16:16	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/07/16 16:16	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 16:16	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/07/16 16:16	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 16:16	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 16:16	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 16:16	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 16:16	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/07/16 16:16	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/07/16 16:16	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 16:16	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 16:16	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/07/16 16:16	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 16:16	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 16:16	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 16:16	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 16:16	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 16:16	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 16:16	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 16:16	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 16:16	1
Dibromofluoromethane	105		75 - 120		03/07/16 16:16	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		03/07/16 16:16	1
Toluene-d8 (Surr)	109		75 - 122		03/07/16 16:16	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	☼	03/07/16 07:10	03/08/16 11:16	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-34(0-1)-030416

Lab Sample ID: 500-108391-9

Date Collected: 03/04/16 11:15

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/07/16 07:10	03/08/16 11:16	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-34(0-1)-030416

Lab Sample ID: 500-108391-9

Date Collected: 03/04/16 11:15

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/07/16 07:10	03/08/16 11:16	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137	03/07/16 07:10	03/08/16 11:16	1
2-Fluorobiphenyl	94		25 - 119	03/07/16 07:10	03/08/16 11:16	1
2-Fluorophenol	94		25 - 110	03/07/16 07:10	03/08/16 11:16	1
Nitrobenzene-d5	98		25 - 115	03/07/16 07:10	03/08/16 11:16	1
Phenol-d5	61		31 - 110	03/07/16 07:10	03/08/16 11:16	1
Terphenyl-d14	109		36 - 134	03/07/16 07:10	03/08/16 11:16	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		03/09/16 15:25	03/10/16 15:00	1
Barium	0.22	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Copper	0.010	J	0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Iron	0.58		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:00	1
Manganese	0.094		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:00	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:00	1
Zinc	0.22	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:00	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		03/09/16 15:30	03/10/16 22:23	1
Barium	0.21	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:23	1
Copper	0.013	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:23	1
Iron	2.5		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:23	1
Manganese	0.026		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:23	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-34(0-1)-030416

Lab Sample ID: 500-108391-9

Date Collected: 03/04/16 11:15

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 15:30	03/10/16 22:23	1
Zinc	0.23	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:23	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	☼	03/07/16 09:39	03/07/16 21:32	1
Arsenic	2.0		0.50	0.23	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Barium	17		0.50	0.091	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Beryllium	0.17	J	0.20	0.043	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Calcium	810	B	9.9	3.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Chromium	6.1	B	0.50	0.085	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Cobalt	2.5		0.25	0.056	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Copper	2.9		0.50	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Iron	5900	B	9.9	3.8	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Lead	3.0		0.25	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Magnesium	920		5.0	2.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Manganese	70	B	0.50	0.098	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Nickel	6.2	B	0.50	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Potassium	370	B	25	4.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Sodium	140		50	6.6	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Vanadium	11		0.25	0.072	mg/Kg	☼	03/07/16 09:39	03/07/16 21:32	1
Zinc	15		0.99	0.31	mg/Kg	☼	03/07/16 09:39	03/08/16 13:49	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		03/09/16 17:30	03/10/16 23:31	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		03/09/16 17:30	03/11/16 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J B	16	8.7	ug/Kg	☼	03/07/16 19:00	03/11/16 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			03/08/16 14:13	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-35(0-1)-030416

Lab Sample ID: 500-108391-10

Date Collected: 03/04/16 11:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/07/16 16:42	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 16:42	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 16:42	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 16:42	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 16:42	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 16:42	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 16:42	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 16:42	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 16:42	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 16:42	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 16:42	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 16:42	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 16:42	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 16:42	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 16:42	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 16:42	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 16:42	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 16:42	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 16:42	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 16:42	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 16:42	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 16:42	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 16:42	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 16:42	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 16:42	1
Dibromofluoromethane	106		75 - 120		03/07/16 16:42	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 16:42	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 16:42	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	39	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-35(0-1)-030416

Lab Sample ID: 500-108391-10

Date Collected: 03/04/16 11:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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	83	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Acenaphthene	46		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Acenaphthylene	57		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Anthracene	160		36	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Benzo[a]anthracene	510 *		36	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Benzo[a]pyrene	590 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Benzo[b]fluoranthene	990 *		36	7.9	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Benzo[g,h,i]perylene	260 *		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Benzo[k]fluoranthene	360 *		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Chrysene	510 *		36	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Dibenz(a,h)anthracene	<36 *		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Fluoranthene	1300		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Fluorene	51		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-35(0-1)-030416

Lab Sample ID: 500-108391-10

Date Collected: 03/04/16 11:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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	230	*	36	9.4	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Phenanthrene	490		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Pyrene	2200	*	36	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		35 - 137				03/07/16 07:10	03/08/16 18:29	1
2-Fluorobiphenyl	95		25 - 119				03/07/16 07:10	03/08/16 18:29	1
2-Fluorophenol	88		25 - 110				03/07/16 07:10	03/08/16 18:29	1
Nitrobenzene-d5	98		25 - 115				03/07/16 07:10	03/08/16 18:29	1
Phenol-d5	45		31 - 110				03/07/16 07:10	03/08/16 18:29	1
Terphenyl-d14	191	X*	36 - 134				03/07/16 07:10	03/08/16 18:29	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 15:25	03/10/16 15:07	1
Barium	0.26	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:07	1
Manganese	0.39		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:07	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:07	1
Zinc	0.16	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Barium	0.18	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Copper	0.011	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Iron	1.5		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:30	1
Manganese	0.018	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:30	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-35(0-1)-030416

Lab Sample ID: 500-108391-10

Date Collected: 03/04/16 11:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.2

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		03/09/16 15:30	03/10/16 22:30	1
Zinc	0.20	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:30	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	☼	03/07/16 09:39	03/07/16 21:36	1
Arsenic	2.0		0.55	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Barium	25		0.55	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Beryllium	0.21	J	0.22	0.048	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Calcium	1500	B	11	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Chromium	7.6	B	0.55	0.095	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Cobalt	7.1		0.28	0.062	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Copper	3.3		0.55	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Iron	6500	B	11	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Lead	4.9		0.28	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Magnesium	1500		5.5	2.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Manganese	120	B	0.55	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Nickel	5.7	B	0.55	0.15	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Potassium	430	B	28	4.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Sodium	570		55	7.3	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Vanadium	14		0.28	0.080	mg/Kg	☼	03/07/16 09:39	03/07/16 21:36	1
Zinc	17		1.1	0.35	mg/Kg	☼	03/07/16 09:39	03/08/16 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		03/09/16 17:30	03/10/16 23:39	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		03/09/16 17:30	03/11/16 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19	B	18	9.6	ug/Kg	☼	03/07/16 19:00	03/11/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			03/08/16 14:16	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-37(0-1)-030416

Lab Sample ID: 500-108391-12

Date Collected: 03/04/16 12:00

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼		03/07/16 17:34	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 17:34	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 17:34	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 17:34	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 17:34	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 17:34	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 17:34	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 17:34	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 17:34	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 17:34	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 17:34	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 17:34	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 17:34	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 17:34	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 17:34	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 17:34	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 17:34	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 17:34	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 17:34	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 17:34	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 17:34	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 17:34	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 17:34	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 17:34	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 17:34	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 17:34	1
Dibromofluoromethane	107		75 - 120		03/07/16 17:34	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 17:34	1
Toluene-d8 (Surr)	105		75 - 122		03/07/16 17:34	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	☼	03/07/16 07:10	03/08/16 11:40	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-37(0-1)-030416

Lab Sample ID: 500-108391-12

Date Collected: 03/04/16 12:00

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/07/16 07:10	03/08/16 11:40	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Anthracene	<36		36	6.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Chrysene	<36		36	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-37(0-1)-030416

Lab Sample ID: 500-108391-12

Date Collected: 03/04/16 12:00

Matrix: Solid

Date Received: 03/04/16 16:50

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	☼	03/07/16 07:10	03/08/16 11:40	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Pyrene	<36		36	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 11:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				03/07/16 07:10	03/08/16 11:40	1
2-Fluorobiphenyl	80		25 - 119				03/07/16 07:10	03/08/16 11:40	1
2-Fluorophenol	103		25 - 110				03/07/16 07:10	03/08/16 11:40	1
Nitrobenzene-d5	84		25 - 115				03/07/16 07:10	03/08/16 11:40	1
Phenol-d5	54		31 - 110				03/07/16 07:10	03/08/16 11:40	1
Terphenyl-d14	99		36 - 134				03/07/16 07:10	03/08/16 11:40	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 15:25	03/10/16 15:21	1
Barium	0.25	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:21	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:21	1
Manganese	0.063		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:21	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:21	1
Zinc	0.18	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:21	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		03/09/16 15:30	03/10/16 22:44	1
Barium	0.14	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:44	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:44	1
Iron	0.45		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:44	1
Manganese	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:44	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-37(0-1)-030416

Lab Sample ID: 500-108391-12

Date Collected: 03/04/16 12:00

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 15:30	03/10/16 22:44	1
Zinc	0.46	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:44	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	☼	03/07/16 09:39	03/07/16 21:46	1
Arsenic	4.4		0.50	0.23	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Barium	35		0.50	0.091	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Beryllium	0.33		0.20	0.043	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Calcium	1100	B	10	3.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Chromium	9.2	B	0.50	0.086	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Cobalt	5.1		0.25	0.056	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Copper	7.0		0.50	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Iron	10000	B	10	3.9	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Lead	7.0		0.25	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Magnesium	1500		5.0	2.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Manganese	200	B	0.50	0.099	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Nickel	9.4	B	0.50	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Potassium	580	B	25	4.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Selenium	0.30	J	0.50	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Sodium	580		50	6.6	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Vanadium	19		0.25	0.073	mg/Kg	☼	03/07/16 09:39	03/07/16 21:46	1
Zinc	28		1.0	0.32	mg/Kg	☼	03/07/16 09:39	03/08/16 14:03	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		03/09/16 17:30	03/10/16 23:43	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		03/09/16 17:30	03/11/16 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18	B	17	9.1	ug/Kg	☼	03/07/16 19:00	03/11/16 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			03/08/16 14:20	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-38(0-1)-030416

Lab Sample ID: 500-108391-13

Date Collected: 03/04/16 12:20

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	☼		03/07/16 18:00	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 18:00	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/07/16 18:00	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 18:00	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/07/16 18:00	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 18:00	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/07/16 18:00	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/07/16 18:00	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/07/16 18:00	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/07/16 18:00	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 18:00	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 18:00	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 18:00	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 18:00	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/07/16 18:00	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/07/16 18:00	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 18:00	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/07/16 18:00	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/07/16 18:00	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/07/16 18:00	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/07/16 18:00	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/07/16 18:00	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/07/16 18:00	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/07/16 18:00	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/07/16 18:00	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/07/16 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 18:00	1
Dibromofluoromethane	108		75 - 120		03/07/16 18:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/07/16 18:00	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 18:00	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	☼	03/07/16 07:10	03/08/16 12:04	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-38(0-1)-030416

Lab Sample ID: 500-108391-13

Date Collected: 03/04/16 12:20

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	<390		390	89	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Methylphenol	<200		200	62	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Carbazole	<200		200	97	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Chrysene	<39		39	11	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-38(0-1)-030416

Lab Sample ID: 500-108391-13

Date Collected: 03/04/16 12:20

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	<39		39	10	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Isophorone	<200		200	44	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
N-Nitrosodi-n-propylamine	<78		78	48	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Phenol	<200		200	86	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Pyrene	<39		39	7.7	ug/Kg	☼	03/07/16 07:10	03/08/16 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/07/16 07:10	03/08/16 12:04	1
2-Fluorobiphenyl	90		25 - 119				03/07/16 07:10	03/08/16 12:04	1
2-Fluorophenol	90		25 - 110				03/07/16 07:10	03/08/16 12:04	1
Nitrobenzene-d5	99		25 - 115				03/07/16 07:10	03/08/16 12:04	1
Phenol-d5	75		31 - 110				03/07/16 07:10	03/08/16 12:04	1
Terphenyl-d14	114		36 - 134				03/07/16 07:10	03/08/16 12:04	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 15:25	03/10/16 15:27	1
Barium	0.33	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:27	1
Manganese	0.058		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:27	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:27	1
Zinc	0.38	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Barium	0.73		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:50	1
Beryllium	0.0075		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:50	1
Chromium	0.17		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Cobalt	0.029		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Copper	0.091		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Iron	170		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:50	1
Lead	0.071		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:50	1
Manganese	1.5		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Nickel	0.085		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-38(0-1)-030416

Lab Sample ID: 500-108391-13

Date Collected: 03/04/16 12:20

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		03/09/16 15:30	03/10/16 22:50	1
Zinc	0.81	B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:50	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	☼	03/07/16 09:39	03/07/16 21:51	1
Arsenic	5.0		0.54	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Barium	57		0.54	0.099	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Beryllium	0.43		0.22	0.047	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Calcium	990	B	11	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Chromium	13	B	0.54	0.093	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Cobalt	6.0		0.27	0.061	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Copper	7.2		0.54	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Iron	12000	B	11	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Lead	8.2		0.27	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Magnesium	1700		5.4	2.2	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Manganese	260	B	0.54	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Nickel	8.9	B	0.54	0.15	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Potassium	720	B	27	4.4	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Selenium	0.39	J	0.54	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Sodium	850		54	7.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Vanadium	25		0.27	0.079	mg/Kg	☼	03/07/16 09:39	03/07/16 21:51	1
Zinc	29		1.1	0.34	mg/Kg	☼	03/07/16 09:39	03/08/16 14:08	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		03/09/16 17:30	03/10/16 23:45	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		03/09/16 17:30	03/11/16 10:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J B	18	9.5	ug/Kg	☼	03/07/16 19:00	03/11/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.00		0.200	0.200	SU			03/08/16 14:23	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-39(0-1)-030416

Lab Sample ID: 500-108391-14

Date Collected: 03/04/16 12:35

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/07/16 18:26	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/07/16 18:26	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 18:26	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 18:26	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/07/16 18:26	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 18:26	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 18:26	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/07/16 18:26	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/07/16 18:26	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/07/16 18:26	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 18:26	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 18:26	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 18:26	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/07/16 18:26	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/07/16 18:26	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 18:26	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/07/16 18:26	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/07/16 18:26	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/07/16 18:26	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/07/16 18:26	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/07/16 18:26	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/07/16 18:26	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/07/16 18:26	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/07/16 18:26	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 18:26	1
Dibromofluoromethane	107		75 - 120		03/07/16 18:26	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/07/16 18:26	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 18:26	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	39	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-39(0-1)-030416

Lab Sample ID: 500-108391-14

Date Collected: 03/04/16 12:35

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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	82	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Benzo[a]anthracene	11 J		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Benzo[a]pyrene	11 J		36	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Benzo[b]fluoranthene	20 J		36	7.7	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Carbazole	<180		180	89	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Chrysene	12 J		36	9.8	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Dibenz(a,h)anthracene	<36		36	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Fluoranthene	16 J		36	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-39(0-1)-030416

Lab Sample ID: 500-108391-14

Date Collected: 03/04/16 12:35

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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	9.3	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Phenanthrene	6.6	J	36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Phenol	<180		180	79	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1
Pyrene	19	J	36	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137	03/07/16 07:10	03/08/16 12:52	1
2-Fluorobiphenyl	79		25 - 119	03/07/16 07:10	03/08/16 12:52	1
2-Fluorophenol	92		25 - 110	03/07/16 07:10	03/08/16 12:52	1
Nitrobenzene-d5	84		25 - 115	03/07/16 07:10	03/08/16 12:52	1
Phenol-d5	50		31 - 110	03/07/16 07:10	03/08/16 12:52	1
Terphenyl-d14	99		36 - 134	03/07/16 07:10	03/08/16 12:52	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		03/09/16 15:25	03/10/16 15:34	1
Barium	0.32	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Iron	0.21	J	0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:34	1
Manganese	0.27		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:34	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:34	1
Zinc	0.13	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:34	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		03/09/16 15:30	03/10/16 22:57	1
Barium	0.13	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 22:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 22:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 22:57	1
Chromium	0.017	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:57	1
Copper	0.012	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:57	1
Iron	13		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 22:57	1
Lead	0.017		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 22:57	1
Manganese	0.50		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:57	1
Nickel	0.013	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 22:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 22:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-39(0-1)-030416

Lab Sample ID: 500-108391-14

Date Collected: 03/04/16 12:35

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 88.3

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		03/09/16 15:30	03/10/16 22:57	1
Zinc	0.25	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 22:57	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	☼	03/07/16 09:39	03/07/16 21:56	1
Arsenic	0.84		0.49	0.23	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Barium	25		0.49	0.089	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Beryllium	0.11	J	0.20	0.042	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Cadmium	0.075	J	0.098	0.028	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Calcium	2600	B	9.8	3.1	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Chromium	4.4	B	0.49	0.084	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Cobalt	1.6		0.24	0.055	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Copper	2.6		0.49	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Iron	3700	B	9.8	3.8	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Lead	6.5		0.24	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Magnesium	1600		4.9	2.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Manganese	160	B	0.49	0.097	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Nickel	3.7	B	0.49	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Potassium	260	B	24	4.0	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Sodium	1000		49	6.4	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Vanadium	7.2		0.24	0.071	mg/Kg	☼	03/07/16 09:39	03/07/16 21:56	1
Zinc	17		0.98	0.31	mg/Kg	☼	03/07/16 09:39	03/08/16 14:13	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		03/09/16 17:30	03/10/16 23:47	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		03/09/16 17:30	03/11/16 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J B	19	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.30		0.200	0.200	SU			03/08/16 14:25	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-40(0-1)-030416

Lab Sample ID: 500-108391-15

Date Collected: 03/04/16 12:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 91.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/07/16 18:52	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 18:52	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/07/16 18:52	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 18:52	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 18:52	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 18:52	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/07/16 18:52	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 18:52	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/07/16 18:52	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/07/16 18:52	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 18:52	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 18:52	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/07/16 18:52	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 18:52	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/07/16 18:52	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/07/16 18:52	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/07/16 18:52	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/07/16 18:52	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/07/16 18:52	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 18:52	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/07/16 18:52	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 18:52	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/07/16 18:52	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 18:52	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 18:52	1
Dibromofluoromethane	107		75 - 120		03/07/16 18:52	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/07/16 18:52	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 18:52	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	38	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-40(0-1)-030416

Lab Sample ID: 500-108391-15

Date Collected: 03/04/16 12:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 91.6

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 07:10	03/08/16 13:16	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Benzo[a]anthracene	<35		35	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Benzo[a]pyrene	<35		35	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Benzo[b]fluoranthene	<35		35	7.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Carbazole	<180		180	89	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Chrysene	<35		35	9.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Dibenz(a,h)anthracene	<35		35	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Fluoranthene	<35		35	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-40(0-1)-030416

Lab Sample ID: 500-108391-15

Date Collected: 03/04/16 12:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 91.6

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	<35		35	9.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Phenol	<180		180	79	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1
Pyrene	<35		35	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137	03/07/16 07:10	03/08/16 13:16	1
2-Fluorobiphenyl	93		25 - 119	03/07/16 07:10	03/08/16 13:16	1
2-Fluorophenol	98		25 - 110	03/07/16 07:10	03/08/16 13:16	1
Nitrobenzene-d5	98		25 - 115	03/07/16 07:10	03/08/16 13:16	1
Phenol-d5	80		31 - 110	03/07/16 07:10	03/08/16 13:16	1
Terphenyl-d14	117		36 - 134	03/07/16 07:10	03/08/16 13:16	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		03/09/16 15:25	03/10/16 15:41	1
Barium	0.32	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:41	1
Manganese	1.2		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:41	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:41	1
Zinc	0.65	B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:41	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		03/09/16 15:30	03/10/16 23:04	1
Barium	0.20	J	0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:04	1
Chromium	0.030		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:04	1
Copper	0.016	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:04	1
Iron	22		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:04	1
Lead	0.021		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:04	1
Manganese	0.64		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:04	1
Nickel	0.024	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-40(0-1)-030416

Lab Sample ID: 500-108391-15

Date Collected: 03/04/16 12:50

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 91.6

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		03/09/16 15:30	03/10/16 23:04	1
Zinc	0.17	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:04	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	☼	03/07/16 09:39	03/07/16 22:08	1
Arsenic	1.2		0.51	0.24	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Barium	21		0.51	0.093	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Beryllium	0.15	J	0.20	0.044	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Cadmium	0.13		0.10	0.030	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Calcium	8400	B	10	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Chromium	4.5	B	0.51	0.088	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Cobalt	1.6		0.26	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Copper	2.1		0.51	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Iron	4000	B	10	3.9	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Lead	4.0		0.26	0.13	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Magnesium	5100		5.1	2.1	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Manganese	120	B	0.51	0.10	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Nickel	4.0	B	0.51	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Potassium	290	B	26	4.2	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Sodium	140		51	6.7	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Vanadium	7.3		0.26	0.074	mg/Kg	☼	03/07/16 09:39	03/07/16 22:08	1
Zinc	24		1.0	0.32	mg/Kg	☼	03/07/16 09:39	03/08/16 14:17	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		03/09/16 17:30	03/10/16 23:49	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		03/09/16 17:30	03/11/16 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J B	16	8.5	ug/Kg	☼	03/07/16 19:00	03/11/16 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			03/08/16 14:27	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416

Lab Sample ID: 500-108391-16

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/07/16 19:19	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 19:19	1
Bromodichloromethane	<5.4		5.4	0.90	ug/Kg	☼		03/07/16 19:19	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 19:19	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 19:19	1
Carbon tetrachloride	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
Chloroethane	<5.4		5.4	2.2	ug/Kg	☼		03/07/16 19:19	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/07/16 19:19	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 19:19	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/07/16 19:19	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	☼		03/07/16 19:19	1
1,1-Dichloroethene	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 19:19	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 19:19	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 19:19	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/07/16 19:19	1
Methylene Chloride	<5.4		5.4	4.0	ug/Kg	☼		03/07/16 19:19	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 19:19	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/07/16 19:19	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 19:19	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 19:19	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 19:19	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 19:19	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/07/16 19:19	1
Trichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 19:19	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 19:19	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/07/16 19:19	1
Dibromofluoromethane	108		75 - 120		03/07/16 19:19	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/07/16 19:19	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416

Lab Sample ID: 500-108391-16

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	77	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,4,6-Trichlorophenol	<330		330	120	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,4-Dichlorophenol	<330		330	80	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,4-Dinitrotoluene	<170		170	53	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Methylnaphthalene	<33		33	6.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Methylphenol	<170		170	54	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
2-Nitrophenol	<330		330	79	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Acenaphthene	<33		33	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Acenaphthylene	<33		33	4.4	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Anthracene	<33		33	5.6	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Benzo[a]anthracene	9.8 J		33	4.5	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Benzo[a]pyrene	<33		33	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Benzo[b]fluoranthene	13 J		33	7.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Benzo[g,h,i]perylene	<33		33	11	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Benzo[k]fluoranthene	<33		33	9.9	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Bis(2-ethylhexyl) phthalate	<170		170	61	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Carbazole	<170		170	84	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Chrysene	9.5 J		33	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Dibenz(a,h)anthracene	<33		33	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Dibenzofuran	<170		170	39	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Fluoranthene	12 J		33	6.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Fluorene	<33		33	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Hexachloroethane	<170		170	51	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416

Lab Sample ID: 500-108391-16

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.4

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	<33		33	8.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Isophorone	<170		170	38	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Naphthalene	<33		33	5.2	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Nitrobenzene	<33		33	8.4	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Phenanthrene	6.0	J	33	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Phenol	<170		170	74	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1
Pyrene	13	J	33	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		35 - 137	03/07/16 07:10	03/08/16 13:40	1
2-Fluorobiphenyl	107		25 - 119	03/07/16 07:10	03/08/16 13:40	1
2-Fluorophenol	120	X	25 - 110	03/07/16 07:10	03/08/16 13:40	1
Nitrobenzene-d5	109		25 - 115	03/07/16 07:10	03/08/16 13:40	1
Phenol-d5	78		31 - 110	03/07/16 07:10	03/08/16 13:40	1
Terphenyl-d14	120		36 - 134	03/07/16 07:10	03/08/16 13:40	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 15:25	03/10/16 15:48	1
Barium	0.078	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:48	1
Manganese	0.47		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:48	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:48	1
Zinc	0.22	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Barium	<0.50		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Iron	5.4		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:11	1
Lead	0.0090		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:11	1
Manganese	0.15		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:11	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416

Lab Sample ID: 500-108391-16

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.4

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		03/09/16 15:30	03/10/16 23:11	1
Zinc	0.30	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:11	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.85		0.85	0.18	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Arsenic	0.92		0.42	0.20	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Barium	6.4		0.42	0.078	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Beryllium	0.050	J	0.17	0.037	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Cadmium	0.036	J	0.085	0.025	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Calcium	1200	B	8.5	2.7	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Chromium	2.9	B	0.42	0.073	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Cobalt	1.3		0.21	0.048	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Copper	1.5		0.42	0.092	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Iron	2600	B	8.5	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Lead	2.7		0.21	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Magnesium	890		4.2	1.7	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Manganese	55	B	0.42	0.084	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Nickel	3.2	B	0.42	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Potassium	190	B	21	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Selenium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Sodium	190		42	5.6	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Vanadium	4.7		0.21	0.062	mg/Kg	☼	03/07/16 09:39	03/07/16 22:12	1
Zinc	8.7		0.85	0.27	mg/Kg	☼	03/07/16 09:39	03/08/16 14:21	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		03/09/16 17:30	03/10/16 23:51	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	03/11/16 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.8	ug/Kg	☼	03/07/16 19:00	03/11/16 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			03/08/16 14:29	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416D

Lab Sample ID: 500-108391-17

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 93.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/07/16 21:48	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 21:48	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/07/16 21:48	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 21:48	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 21:48	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 21:48	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 21:48	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/07/16 21:48	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/07/16 21:48	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 21:48	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 21:48	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/07/16 21:48	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 21:48	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/07/16 21:48	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/07/16 21:48	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/07/16 21:48	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 21:48	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/07/16 21:48	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/07/16 21:48	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 21:48	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 21:48	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/07/16 21:48	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/07/16 21:48	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/07/16 21:48	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 21:48	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/07/16 21:48	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/07/16 21:48	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/07/16 21:48	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/07/16 21:48	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/07/16 21:48	1
Dibromofluoromethane	106		75 - 120		03/07/16 21:48	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		03/07/16 21:48	1
Toluene-d8 (Surr)	106		75 - 122		03/07/16 21:48	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 07:10	03/08/16 14:04	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416D

Lab Sample ID: 500-108391-17

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

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	<350		350	80	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Anthracene	<35		35	5.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Benzo[a]anthracene	7.1	J	35	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Benzo[a]pyrene	<35	*	35	6.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Benzo[b]fluoranthene	<35	*	35	7.6	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Carbazole	<180		180	87	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Chrysene	<35		35	9.5	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Fluoranthene	12	J	35	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416D

Lab Sample ID: 500-108391-17

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

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	<35	*	35	9.1	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Isophorone	<180		180	39	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Phenanthrene	10	J	35	4.9	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Phenol	<180		180	78	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Pyrene	11	J	35	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		35 - 137				03/07/16 07:10	03/08/16 14:04	1
2-Fluorobiphenyl	105		25 - 119				03/07/16 07:10	03/08/16 14:04	1
2-Fluorophenol	94		25 - 110				03/07/16 07:10	03/08/16 14:04	1
Nitrobenzene-d5	109		25 - 115				03/07/16 07:10	03/08/16 14:04	1
Phenol-d5	84		31 - 110				03/07/16 07:10	03/08/16 14:04	1
Terphenyl-d14	128		36 - 134				03/07/16 07:10	03/08/16 14:04	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 15:25	03/10/16 15:54	1
Barium	0.084	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 15:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 15:54	1
Manganese	0.52		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 15:54	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 15:54	1
Zinc	0.42	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 15:54	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		03/09/16 15:30	03/10/16 23:17	1
Barium	<0.50		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:17	1
Copper	0.010	J	0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:17	1
Iron	7.5		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:17	1
Lead	0.015		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:17	1
Manganese	0.18		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-41(0-1)-030416D

Lab Sample ID: 500-108391-17

Date Collected: 03/04/16 13:05

Matrix: Solid

Date Received: 03/04/16 16:50

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		03/09/16 15:30	03/10/16 23:17	1
Zinc	0.25	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.85		0.85	0.18	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Arsenic	1.1		0.42	0.20	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Barium	6.3		0.42	0.078	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Beryllium	0.072	J	0.17	0.037	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Cadmium	0.029	J	0.085	0.025	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Calcium	2600	B	8.5	2.7	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Chromium	3.0	B	0.42	0.073	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Cobalt	1.3		0.21	0.048	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Copper	1.6		0.42	0.092	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Iron	2700	B	8.5	3.3	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Lead	3.3		0.21	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Magnesium	1700		4.2	1.7	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Manganese	61	B	0.42	0.084	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Nickel	3.3	B	0.42	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Potassium	190	B	21	3.5	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Selenium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Sodium	210		42	5.6	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Vanadium	4.5		0.21	0.062	mg/Kg	☼	03/07/16 09:39	03/07/16 22:16	1
Zinc	9.5		0.85	0.27	mg/Kg	☼	03/07/16 09:39	03/08/16 14:25	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	03/10/16 23:53	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	03/11/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.3	ug/Kg	☼	03/07/16 19:00	03/11/16 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			03/08/16 14:32	1

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-42(0-1)-030416

Lab Sample ID: 500-108391-18

Date Collected: 03/04/16 13:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/07/16 22:14	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 22:14	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/07/16 22:14	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 22:14	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 22:14	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/07/16 22:14	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/07/16 22:14	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/07/16 22:14	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/07/16 22:14	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 22:14	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 22:14	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/07/16 22:14	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 22:14	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/07/16 22:14	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/07/16 22:14	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/07/16 22:14	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/07/16 22:14	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/07/16 22:14	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/07/16 22:14	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/07/16 22:14	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/07/16 22:14	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/07/16 22:14	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/07/16 22:14	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/07/16 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/07/16 22:14	1
Dibromofluoromethane	108		75 - 120		03/07/16 22:14	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/07/16 22:14	1
Toluene-d8 (Surr)	107		75 - 122		03/07/16 22:14	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	39	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-42(0-1)-030416

Lab Sample ID: 500-108391-18

Date Collected: 03/04/16 13:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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	☼	03/07/16 07:10	03/08/16 14:28	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Anthracene	<36		36	6.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Carbazole	<180		180	90	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Chrysene	<36		36	9.8	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Dibenz(a,h)anthracene	<36		36	6.9	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-42(0-1)-030416

Lab Sample ID: 500-108391-18

Date Collected: 03/04/16 13:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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	☼	03/07/16 07:10	03/08/16 14:28	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Phenol	<180		180	80	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Pyrene	<36		36	7.1	ug/Kg	☼	03/07/16 07:10	03/08/16 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137				03/07/16 07:10	03/08/16 14:28	1
2-Fluorobiphenyl	96		25 - 119				03/07/16 07:10	03/08/16 14:28	1
2-Fluorophenol	86		25 - 110				03/07/16 07:10	03/08/16 14:28	1
Nitrobenzene-d5	98		25 - 115				03/07/16 07:10	03/08/16 14:28	1
Phenol-d5	76		31 - 110				03/07/16 07:10	03/08/16 14:28	1
Terphenyl-d14	112		36 - 134				03/07/16 07:10	03/08/16 14:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Barium	0.13	J	0.50	0.050	mg/L		03/09/16 15:25	03/10/16 16:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:25	03/10/16 16:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:25	03/10/16 16:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:25	03/10/16 16:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:25	03/10/16 16:01	1
Manganese	0.39		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:25	03/10/16 16:01	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:25	03/10/16 16:01	1
Zinc	0.44	J B	0.50	0.020	mg/L		03/09/16 15:25	03/10/16 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Barium	<0.50		0.50	0.050	mg/L		03/09/16 15:30	03/10/16 23:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:30	03/10/16 23:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:30	03/10/16 23:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Iron	3.2		0.40	0.20	mg/L		03/09/16 15:30	03/10/16 23:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:30	03/10/16 23:40	1
Manganese	0.18		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:30	03/10/16 23:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:30	03/10/16 23:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108391-1

Client Sample ID: KR94-42(0-1)-030416

Lab Sample ID: 500-108391-18

Date Collected: 03/04/16 13:25

Matrix: Solid

Date Received: 03/04/16 16:50

Percent Solids: 90.7

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		03/09/16 15:30	03/10/16 23:40	1
Zinc	0.31	J B	0.50	0.020	mg/L		03/09/16 15:30	03/10/16 23:40	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	☼	03/07/16 09:39	03/07/16 22:21	1
Arsenic	0.81		0.50	0.23	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Barium	14		0.50	0.091	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Beryllium	<0.20		0.20	0.043	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Cadmium	0.052	J	0.10	0.029	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Calcium	3200	B	10	3.2	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Chromium	2.8	B	0.50	0.086	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Cobalt	1.1		0.25	0.056	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Copper	2.1		0.50	0.11	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Iron	3100	B	10	3.8	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Lead	3.3		0.25	0.12	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Magnesium	2000		5.0	2.0	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Manganese	130	B	0.50	0.099	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Nickel	2.6	B	0.50	0.14	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Potassium	180	B	25	4.1	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Sodium	290		50	6.6	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Vanadium	4.4		0.25	0.073	mg/Kg	☼	03/07/16 09:39	03/07/16 22:21	1
Zinc	13		1.0	0.32	mg/Kg	☼	03/07/16 09:39	03/08/16 14:29	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	03/10/16 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/09/16 17:30	03/11/16 10:39	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 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12		0.200	0.200	SU			03/08/16 14:34	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108391-1

Qualifiers

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
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
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.
^	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: 500-108391-1

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. Bahner
Company: Weston Solutions Inc.
Address: 300 Plaza Circle, Ste 202
Address: Mundelein, IL 60060
Phone: 224-564-7250
Fax: 224-864-7236
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108391
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: 37

Client		Client Project #		Preservative		Parameter		Matrix		 500-108391 COC Preservative Key Cool to 4° Cool to 4° Cool to 4° Cool to 4°	
Weston Solutions Inc.		02052 014 040 0030		7 7 7 7 7							
Project Name: 1005 040 - IL 113		Lab Project #		VOCs		SVOCs		Total Metals			
Project Location/State: Braidwood, IL		Lab PM D. Wright		GC/MS		GC/MS		PH			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				Comments	
1		KR94-27(0-1)-030416	3-4-16	0845	2	S	X	X	X	X	
2		KR94-28(0-1)-030416		0858	1						
3		KR94-29(0-1)-030416		0915	1						
4		KR94-30(0-1)-030416		0930	1						
5		KR94-31(0-1)-030416		0955	1						
6		KR94-31(0-1)-030416		0955	1						
7		KR94-32(0-1)-030416		1030	1						
8		KR94-33(0-1)-030416		1055	1						
9		KR94-34(0-1)-030416		1115	1						
10		KR94-35(0-1)-030416	3-4-16	1125	2	S	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ PS 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 Weston	Date 3-4-2016	Time 1536	Received By <u>[Signature]</u>	Company TA	Date 3/4/16	Time 1536
Relinquished By <u>[Signature]</u>	Company TA	Date 3/4/16	Time 1658	Received By <u>[Signature]</u>	Company TA	Date 03/04/16	Time 16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-GH
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 Contact: <u>S. Babuse Kumar</u> Company: <u>Weston Solutions</u> Address: <u>300 Plaza Circle, Ste 200</u> Address: <u>Murkirt, IL 60060</u> Phone: <u>224-864-7250</u> Fax: <u>224-864-7236</u> E-Mail:	(optional)	Bill To Contact: <u>SAME</u> Company: Address: Address: Phone: Fax: PO#/Reference#	(optional)
---	------------	---	------------

Chain of Custody Record

Lab Job #: 500-108391
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 3.7

Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Preservative					Comments
			Date	Time			7	7	7	7	7	
11		KR94-36(0-1)-030416	3-4-16	1145	2	S	X	X	X	X	X	
12		KR94-37(0-1)-030416		1200								
13		KR94-38(0-1)-030416		1220								
14		KR94-39(0-1)-030416		1235								
15		KR94-40(0-1)-030416		1250								
16		KR94-41(0-1)-030416		1305								
17		KR94-41(0-1)-030416		1305								
18		KR94-42(0-1)-030416		1325								
19		RS9-2(0-1)-030416		1350								
20		RS9-3(0-1)-030416	3-4-16	1405	2	S	X	X	X	X	X	

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

Turnaround Time Required (Business Days)

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

Relinquished By <u>Gregory Bell</u>	Company <u>Weston</u>	Date <u>3-4-16</u>	Time <u>1536</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>1536</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</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-GHI
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):
19321 W. IL 113, (ISGS Site No. 2948-95)

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: 41.228077511 Longitude: -88.073408927
(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: 41.228077511 Longitude: -88.073408927Uncontaminated 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 R95-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-95. SEE FIGURE 3-14 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: 500-108665-1.
ALSO SEE FIGURES 4-14 AND 4-15 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:


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. 2948-95
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	R95-1(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	
Location ID	R95-1	
Depth	0 - 1	
Location Code	2948-95	
Parameter		
Laboratory pH	7.76	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	5.4 J	900 / 1100 / 1800
Total Metals (mg/kg)		
Arsenic, Total	4.9	11.3 / 13
Barium, Total	53	1500
Beryllium, Total	0.4	22
Cadmium, Total	ND	5.2
Calcium, Total	1500 J	---
Chromium, Total	11	21
Iron, Total	12000 J	15000 / 15900
Lead, Total	7.9	107
Manganese, Total	210	630 / 636
Mercury, Total	0.016 J	0.89
Nickel, Total	9.1	100
Potassium, Total	560 J+	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	33	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.37 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.22 J	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.16	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
SPLP Metals (mg/l)		
Arsenic, SPLP	0.054	0.05
Barium, SPLP	0.69	2
Beryllium, SPLP	0.006	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.14	0.1
Iron, SPLP	150 J+	5
Lead, SPLP	0.072	0.0075
Manganese, SPLP	1.4	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.11	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.91 J+	5

Summary Table of ISGS Site No. 2948-95
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.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108665-1

Client Sample ID: R95-1(0-1)-031016

Lab Sample ID: 500-108665-5

Date Collected: 03/10/16 08:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/14/16 23:15	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/14/16 23:15	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/14/16 23:15	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/14/16 23:15	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/14/16 23:15	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/14/16 23:15	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/14/16 23:15	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/14/16 23:15	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/14/16 23:15	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/14/16 23:15	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/14/16 23:15	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/14/16 23:15	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/14/16 23:15	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/14/16 23:15	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/14/16 23:15	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/14/16 23:15	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
1,1,2,2-Tetrachloroethane	<5.8 *		5.8	0.92	ug/Kg	☼		03/14/16 23:15	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/14/16 23:15	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/14/16 23:15	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/14/16 23:15	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/14/16 23:15	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/14/16 23:15	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/14/16 23:15	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/14/16 23:15	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/14/16 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/14/16 23:15	1
Dibromofluoromethane	110		75 - 120		03/14/16 23:15	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/14/16 23:15	1
Toluene-d8 (Surr)	101		75 - 122		03/14/16 23:15	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	☼	03/15/16 06:55	03/21/16 19:40	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R95-1(0-1)-031016

Lab Sample ID: 500-108665-5

Date Collected: 03/10/16 08:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Acenaphthylene	<37		37	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Anthracene	<37		37	6.1	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Benzo[a]anthracene	5.4 J		37	4.9	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Benzo[b]fluoranthene	<37		37	7.9	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Carbazole	<180		180	92	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Chrysene	<37		37	10	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R95-1(0-1)-031016

Lab Sample ID: 500-108665-5

Date Collected: 03/10/16 08:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.5	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Isophorone	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Phenol	<180		180	82	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1
Pyrene	12	J	37	7.3	ug/Kg	☼	03/15/16 06:55	03/21/16 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137	03/15/16 06:55	03/21/16 19:40	1
2-Fluorobiphenyl	89		25 - 119	03/15/16 06:55	03/21/16 19:40	1
2-Fluorophenol	82		25 - 110	03/15/16 06:55	03/21/16 19:40	1
Nitrobenzene-d5	81		25 - 115	03/15/16 06:55	03/21/16 19:40	1
Phenol-d5	83		31 - 110	03/15/16 06:55	03/21/16 19:40	1
Terphenyl-d14	95		36 - 134	03/15/16 06:55	03/21/16 19:40	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		03/21/16 09:00	03/22/16 21:08	1
Barium	0.37	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Copper	0.019	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Iron	0.22	J	0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:08	1
Manganese	0.16		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:08	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:08	1
Zinc	0.33	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.054		0.050	0.010	mg/L		03/22/16 08:10	03/23/16 00:39	1
Barium	0.69		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:39	1
Beryllium	0.0060		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 12:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:39	1
Chromium	0.14		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:53	1
Cobalt	0.026		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:53	1
Copper	0.098		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:39	1
Iron	150		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 12:53	1
Lead	0.072		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 12:53	1
Manganese	1.4		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:53	1
Nickel	0.11		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R95-1(0-1)-031016

Lab Sample ID: 500-108665-5

Date Collected: 03/10/16 08:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.3

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		03/22/16 08:10	03/23/16 00:39	1
Zinc	0.91	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 12:53	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 08:44	03/22/16 08:12	1
Arsenic	4.9		0.58	0.27	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Barium	53		0.58	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Beryllium	0.40		0.23	0.050	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Calcium	1500	B	12	3.7	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Chromium	11		2.9	0.099	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Cobalt	5.3		0.29	0.065	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Copper	8.1		0.58	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Iron	12000		12	4.5	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Lead	7.9		0.29	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Magnesium	1800	B ^	5.8	2.3	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Manganese	210		0.58	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Nickel	9.1		0.58	0.16	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Potassium	560		29	4.7	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Sodium	1000		58	7.6	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Vanadium	22		0.29	0.084	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	1
Zinc	33		1.2	0.37	mg/Kg	☼	03/17/16 08:44	03/22/16 08:12	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		03/20/16 18:00	03/22/16 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 17:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	17	9.1	ug/Kg	☼	03/19/16 15:30	03/22/16 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			03/15/16 13:47	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

Client		Client Project #		Preservative		Parameter		Total Metals		TECP/SLP Metals		pH		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									Comments
Lab ID	MS/MSD	Sample ID	Date	Time											
Weston															
IDOT-040															
Bridwood & Carter Park/IL		D. Wright													
T. Walls															
1		F93-4(0-1)-031016	3-10-16	0810	2	S	X	X	X	X	X				
2		F93-4(0-1)-031016D		0810											
3		F93-5(0-1)-031016		0825											
4		F93-6(0-1)-031016		0835											
5		R95-1(0-1)-031016		0840											
6		AL96-1(0-1)-031016		0850											
7		AL96-2(0-1)-031016		0900											
8		AL96-3(0-1)-031016		0910											
9		AL96-4(0-1)-031016		0920											
10		AL96-5(0-1)-031016	3-10-16	0930	2	S	X	X	X	X	X				

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days stand 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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		Preservative		Parameter														
<u>IDOT Western</u>		<u>IDOT-040</u>																		
Project Location/State		Lab Project #																		
<u>Bridlewood & Custer Park/A</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	TRP/SPR metals	ATH	Preservative Key								
			Date	Time								1. HCL, Cool to 4°	2. H2SO4, Cool to 4°	3. HNO3, Cool to 4°	4. NaOH, Cool to 4°	5. NaOH/Zn, Cool to 4°	6. NaHSO4	7. Cool to 4°	8. None	9. Other
<u>11</u>		<u>AL96-6(0-1)-031016</u>	<u>3-10-16</u>	<u>0940</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>AL96-6(0-1)-031016B</u>		<u>0940</u>																
<u>13</u>		<u>R97-1(0-1)-031016</u>		<u>0950</u>																
<u>14</u>		<u>R97-2(0-1)-031016</u>		<u>1005</u>																
<u>15</u>		<u>RI98-1(0-1)-031016</u>		<u>1020</u>																
<u>16</u>		<u>R99-1(0-1)-031016</u>		<u>1030</u>																
<u>17</u>		<u>AL100-1(0-1)-031016</u>		<u>1045</u>																
<u>18</u>		<u>AL101-1(0-1)-031016</u>		<u>1105</u>																
<u>19</u>		<u>AL101-2(0-1)-031016</u>		<u>1115</u>																
<u>20</u>		<u>AL101-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1130</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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: _____

Lab Comments: _____



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

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

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

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

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

I. Source Location Information

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

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

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

18900-19300 blocks of W. IL 113, (ISGS Site No. 2948-96)

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: 41.226430612 Longitude: -88.068748383
(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: 41.226430612 Longitude: -88.068748383Uncontaminated 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 AL96-1 THROUGH AL96-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-96. SEE FIGURE 3-15 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: 500-108665-1.
ALSO SEE FIGURE 4-15 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. 2948-96
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	AL96-1(0-1)-031016	AL96-2(0-1)-031016	AL96-3(0-1)-031016	AL96-4(0-1)-031016	AL96-5(0-1)-031016	AL96-6(0-1)-031016	AL96-6(0-1)-031016D	Soil Reference Concentrations
Sample Date	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	AL96-1	AL96-2	AL96-3	AL96-4	AL96-5	AL96-6	AL96-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-96	2948-96	2948-96	2948-96	2948-96	2948-96	2948-96	
Parameter								
Laboratory pH	8.06	8.38	7.8	8.22	8.09	8.42	8.33	<6.25,>9.0
VOCs (ug/kg)	None Detected							
SVOCs (ug/kg)								
Benzo(a)pyrene	ND	190 J	310	150 J	150 J	420 J	700 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	320 J	450	270 J	230 J	680 J	1000 J	900 / 1500 / 2100
Dibenzo(a,h)anthracene	ND	ND	30 J	25 J	ND	52 J	120 J	90 / 200 / 420
Total Metals (mg/kg)								
Arsenic, Total	2.5	4.2	9.8	1.1	1.4	1.7	1.4	11.3 / 13
Barium, Total	38	51	66	15	19	13	17	1500
Beryllium, Total	0.26	0.34	0.42	0.11 J	0.2 J	0.19 J	0.23	22
Cadmium, Total	ND	0.041 J	ND	0.034 J	ND	0.038 J	0.083 J	5.2
Calcium, Total	1700 J	20000 B	6900 B	22000 B	99000 B	120000 B	110000 B	---
Chromium, Total	6.8	8.8 B	11 B	ND	ND	ND	ND	21
Iron, Total	6800 J	9600 B	18000 B	3200 B	4500 B	4200 B	5100 B	15000 / 15900
Lead, Total	5.7	9.7	12	6.2	8	21	18	107
Manganese, Total	200	410	540	89	210	200	190	630 / 636
Mercury, Total	0.014 J	0.024	0.023	ND	ND	ND	0.0098 J	0.89
Nickel, Total	5.2	9.3 B	9.3 B	3.4 B	4.9 B	4.9 B	6.2 B	100
Potassium, Total	350 J+	570	510	280	620	600	790	---
Selenium, Total	ND	0.57	0.94	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Zinc, Total	17	32	27	11	14	14	17	5100
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.32 J	0.31 J	0.42 J	0.22 J	0.25 J	0.27 J	0.33 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	0.34 J	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0097	0.0075
Manganese, TCLP	0.27	0.36	0.57	0.8	1.8	1.5	1.5	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	0.14 J	0.049 J	1	2	1.1	2.5 J	0.8 J	5

Summary Table of ISGS Site No. 2948-96
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	AL96-1(0-1)-031016	AL96-2(0-1)-031016	AL96-3(0-1)-031016	AL96-4(0-1)-031016	AL96-5(0-1)-031016	AL96-6(0-1)-031016	AL96-6(0-1)-031016D	Soil Reference Concentrations
Sample Date	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	AL96-1	AL96-2	AL96-3	AL96-4	AL96-5	AL96-6	AL96-6	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-96	2948-96	2948-96	2948-96	2948-96	2948-96	2948-96	
Parameter								
SPLP Metals (mg/l)								
Arsenic, SPLP	0.012 J	0.026 J	0.057	ND	ND	0.022 J	0.012 J	0.05
Barium, SPLP	0.26 J	0.43 J	0.55	0.087 J	0.1 J	0.32 J	0.21 J	2
Beryllium, SPLP	ND	0.0043	0.0048	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.046	0.095	0.11	0.014 J	0.02 J	0.075	0.051	0.1
Iron, SPLP	45 J+	100 J+	170 J+	11 J+	16 J+	76 J+	50 J+	5
Lead, SPLP	0.023	0.045	0.05	0.014	0.019	0.1	0.11	0.0075
Manganese, SPLP	0.68	0.95	0.92	0.14	0.2	0.71	0.5	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.031	0.067	0.073	ND	0.014 J	0.07	0.045	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	1.8 J+	ND	1.3 J+	ND	ND	ND	1.1 J+	5

Notes:

--- - not applicable or value not available.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

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

LINKS

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results through
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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: 500-108665-1

Client Sample ID: AL96-1(0-1)-031016

Lab Sample ID: 500-108665-6

Date Collected: 03/10/16 08:50

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 87.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/14/16 23:41	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/14/16 23:41	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 23:41	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 23:41	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/14/16 23:41	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 23:41	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 23:41	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/14/16 23:41	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/14/16 23:41	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 23:41	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/14/16 23:41	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 23:41	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 23:41	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/14/16 23:41	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/14/16 23:41	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 23:41	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
1,1,2,2-Tetrachloroethane	<5.7 *		5.7	0.91	ug/Kg	☼		03/14/16 23:41	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 23:41	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 23:41	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 23:41	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 23:41	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 23:41	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 23:41	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/14/16 23:41	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 23:41	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/14/16 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/14/16 23:41	1
Dibromofluoromethane	111		75 - 120		03/14/16 23:41	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/14/16 23:41	1
Toluene-d8 (Surr)	102		75 - 122		03/14/16 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-1(0-1)-031016

Lab Sample ID: 500-108665-6

Date Collected: 03/10/16 08:50

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 87.7

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	84	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Benzo[a]pyrene	<37		37	7.1	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Carbazole	<190		190	92	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Chrysene	<37		37	10	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Fluoranthene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-1(0-1)-031016

Lab Sample ID: 500-108665-6

Date Collected: 03/10/16 08:50

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 87.7

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	9.5	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Isophorone	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Phenanthrene	<37		37	5.1	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Phenol	<190		190	82	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Pyrene	<37		37	7.3	ug/Kg	☼	03/15/16 06:55	03/21/16 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				03/15/16 06:55	03/21/16 20:09	1
2-Fluorobiphenyl	73		25 - 119				03/15/16 06:55	03/21/16 20:09	1
2-Fluorophenol	98		25 - 110				03/15/16 06:55	03/21/16 20:09	1
Nitrobenzene-d5	67		25 - 115				03/15/16 06:55	03/21/16 20:09	1
Phenol-d5	66		31 - 110				03/15/16 06:55	03/21/16 20:09	1
Terphenyl-d14	92		36 - 134				03/15/16 06:55	03/21/16 20:09	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		03/21/16 09:00	03/22/16 21:14	1
Barium	0.32	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Copper	0.012	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:14	1
Manganese	0.27		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:14	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:14	1
Zinc	0.14	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 00:44	1
Barium	0.26	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 12:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:44	1
Chromium	0.046		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:58	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:58	1
Copper	0.023	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:44	1
Iron	45		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 12:58	1
Lead	0.023		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 12:58	1
Manganese	0.68		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:58	1
Nickel	0.031		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:44	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-1(0-1)-031016

Lab Sample ID: 500-108665-6

Date Collected: 03/10/16 08:50

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 87.7

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		03/22/16 08:10	03/23/16 00:44	1
Zinc	1.8	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 12:58	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 08:44	03/22/16 08:17	1
Arsenic	2.5		0.56	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Barium	38		0.56	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Beryllium	0.26		0.23	0.049	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Calcium	1700	B ^	11	3.6	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Chromium	6.8		2.8	0.097	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Cobalt	3.2		0.28	0.064	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Copper	3.8		0.56	0.12	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Iron	6800		11	4.4	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Lead	5.7		0.28	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Magnesium	1500	B ^	5.6	2.3	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Manganese	200		0.56	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Nickel	5.2		0.56	0.15	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Potassium	350		28	4.6	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Sodium	450		56	7.5	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Vanadium	13		0.28	0.082	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	1
Zinc	17		1.1	0.36	mg/Kg	☼	03/17/16 08:44	03/22/16 08:17	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		03/20/16 18:00	03/22/16 10:17	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		03/21/16 18:30	03/22/16 14:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	18	9.6	ug/Kg	☼	03/19/16 15:30	03/22/16 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			03/15/16 13:52	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-2(0-1)-031016

Lab Sample ID: 500-108665-7

Date Collected: 03/10/16 09:00

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 00:07	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/15/16 00:07	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/15/16 00:07	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/15/16 00:07	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/15/16 00:07	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/15/16 00:07	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/15/16 00:07	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/15/16 00:07	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/15/16 00:07	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/15/16 00:07	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/15/16 00:07	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/15/16 00:07	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/15/16 00:07	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/15/16 00:07	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/15/16 00:07	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/15/16 00:07	1
1,3-Dichloropropene, Total	<5.9		5.9	1.6	ug/Kg	☼		03/15/16 00:07	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/15/16 00:07	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/15/16 00:07	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/15/16 00:07	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/15/16 00:07	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/15/16 00:07	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
1,1,2,2-Tetrachloroethane	<5.9 *		5.9	0.93	ug/Kg	☼		03/15/16 00:07	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/15/16 00:07	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/15/16 00:07	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/15/16 00:07	1
trans-1,3-Dichloropropene	<5.9		5.9	1.6	ug/Kg	☼		03/15/16 00:07	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/15/16 00:07	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/15/16 00:07	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/15/16 00:07	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/15/16 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 00:07	1
Dibromofluoromethane	110		75 - 120		03/15/16 00:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 00:07	1
Toluene-d8 (Surr)	102		75 - 122		03/15/16 00:07	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	☼	03/15/16 06:55	03/23/16 01:21	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-2(0-1)-031016

Lab Sample ID: 500-108665-7

Date Collected: 03/10/16 09:00

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼	03/15/16 06:55	03/23/16 01:21	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Acenaphthylene	11	J	38	5.0	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Anthracene	21	J	38	6.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Benzo[a]anthracene	150		38	5.1	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Benzo[a]pyrene	190	*	38	7.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Benzo[b]fluoranthene	320	*	38	8.2	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Benzo[g,h,i]perylene	89	*	38	12	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Benzo[k]fluoranthene	140	*	38	11	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Carbazole	<190		190	95	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Chrysene	150		38	10	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Dibenz(a,h)anthracene	<38 *		38	7.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Fluoranthene	300		38	7.0	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-2(0-1)-031016

Lab Sample ID: 500-108665-7

Date Collected: 03/10/16 09:00

Matrix: Solid

Date Received: 03/10/16 16:55

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	82	*	38	9.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Isophorone	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Phenanthrene	99		38	5.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Phenol	<190		190	84	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Pyrene	340		38	7.5	ug/Kg	☼	03/15/16 06:55	03/23/16 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				03/15/16 06:55	03/23/16 01:21	1
2-Fluorobiphenyl	91		25 - 119				03/15/16 06:55	03/23/16 01:21	1
2-Fluorophenol	87		25 - 110				03/15/16 06:55	03/23/16 01:21	1
Nitrobenzene-d5	87		25 - 115				03/15/16 06:55	03/23/16 01:21	1
Phenol-d5	83		31 - 110				03/15/16 06:55	03/23/16 01:21	1
Terphenyl-d14	133		36 - 134				03/15/16 06:55	03/23/16 01:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Barium	0.31	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:19	1
Manganese	0.36		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:19	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:19	1
Zinc	0.049	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 00:48	1
Barium	0.43	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:48	1
Beryllium	0.0043		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:48	1
Chromium	0.095		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:02	1
Cobalt	0.021	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:02	1
Copper	0.048		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:48	1
Iron	100		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:02	1
Lead	0.045		0.038	0.038	mg/L		03/22/16 08:10	03/23/16 14:44	5
Manganese	0.95		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:02	1
Nickel	0.067		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-2(0-1)-031016

Lab Sample ID: 500-108665-7

Date Collected: 03/10/16 09:00

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:10	03/23/16 00:48	1
Zinc	0.78	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:02	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	☼	03/12/16 13:21	03/15/16 15:21	1
Arsenic	4.2		0.53	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Barium	51		0.53	0.098	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Beryllium	0.34		0.21	0.046	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Cadmium	0.041	J	0.11	0.031	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Calcium	20000	B	11	3.4	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Chromium	8.8	B	2.7	0.092	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Cobalt	5.4		0.27	0.060	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Copper	5.8		0.53	0.12	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Iron	9600	B	11	4.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Lead	9.7		0.27	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Magnesium	13000	B	5.3	2.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Manganese	410		0.53	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Nickel	9.3	B	0.53	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Potassium	570		27	4.4	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Selenium	0.57		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Sodium	610		53	7.0	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Vanadium	15		0.27	0.078	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	1
Zinc	32		1.1	0.34	mg/Kg	☼	03/12/16 13:21	03/15/16 15:21	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		03/20/16 18:00	03/22/16 10:19	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		03/21/16 18:30	03/22/16 17:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		17	8.9	ug/Kg	☼	03/19/16 15:30	03/22/16 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			03/15/16 13:57	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-3(0-1)-031016

Lab Sample ID: 500-108665-8

Date Collected: 03/10/16 09:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 82.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/15/16 00:34	1
Benzene	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:34	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/15/16 00:34	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:34	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:34	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:34	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
Chloroethane	<6.1		6.1	2.5	ug/Kg	☼		03/15/16 00:34	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:34	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/15/16 00:34	1
1,1-Dichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		03/15/16 00:34	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:34	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 00:34	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 00:34	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:34	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/15/16 00:34	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/15/16 00:34	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:34	1
methyl isobutyl ketone	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
1,1,1,2-Tetrachloroethane	<6.1 *		6.1	0.96	ug/Kg	☼		03/15/16 00:34	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:34	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/15/16 00:34	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:34	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 00:34	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:34	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 00:34	1
Vinyl chloride	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:34	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/15/16 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 00:34	1
Dibromofluoromethane	110		75 - 120		03/15/16 00:34	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/15/16 00:34	1
Toluene-d8 (Surr)	101		75 - 122		03/15/16 00:34	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	☼	03/15/16 06:55	03/23/16 00:52	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-3(0-1)-031016

Lab Sample ID: 500-108665-8

Date Collected: 03/10/16 09:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 82.6

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	88	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
3,3'-Dichlorobenzidine	<190 *		190	54	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Acenaphthene	10 J		39	7.0	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Acenaphthylene	22 J		39	5.1	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Anthracene	50		39	6.5	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Benzo[a]anthracene	270		39	5.2	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Benzo[a]pyrene	310		39	7.5	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Benzo[b]fluoranthene	450		39	8.4	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Benzo[g,h,i]perylene	140		39	12	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Benzo[k]fluoranthene	190		39	11	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Carbazole	<190		190	97	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Chrysene	280		39	11	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Dibenz(a,h)anthracene	30 J		39	7.5	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Fluoranthene	640		39	7.2	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Fluorene	7.1 J		39	5.5	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-3(0-1)-031016

Lab Sample ID: 500-108665-8

Date Collected: 03/10/16 09:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 82.6

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	130		39	10	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Isophorone	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Phenanthrene	120		39	5.4	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Phenol	<190		190	86	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Pyrene	540		39	7.7	ug/Kg	☼	03/15/16 06:55	03/23/16 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	27	X	35 - 137				03/15/16 06:55	03/23/16 00:52	1
2-Fluorobiphenyl	81		25 - 119				03/15/16 06:55	03/23/16 00:52	1
2-Fluorophenol	83		25 - 110				03/15/16 06:55	03/23/16 00:52	1
Nitrobenzene-d5	80		25 - 115				03/15/16 06:55	03/23/16 00:52	1
Phenol-d5	80		31 - 110				03/15/16 06:55	03/23/16 00:52	1
Terphenyl-d14	86		36 - 134				03/15/16 06:55	03/23/16 00:52	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		03/21/16 09:00	03/22/16 21:24	1
Barium	0.42	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:24	1
Manganese	0.57		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:24	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:24	1
Zinc	1.0		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		03/22/16 08:10	03/23/16 00:53	1
Barium	0.55		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:53	1
Beryllium	0.0048		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:53	1
Chromium	0.11		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:07	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:07	1
Copper	0.055		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:53	1
Iron	170		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:07	1
Lead	0.050		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:07	1
Manganese	0.92		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:07	1
Nickel	0.073		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-3(0-1)-031016

Lab Sample ID: 500-108665-8

Date Collected: 03/10/16 09:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 82.6

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		03/22/16 08:10	03/23/16 00:53	1
Zinc	1.3	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:07	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	☼	03/12/16 13:21	03/15/16 15:26	1
Arsenic	9.8		0.57	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Barium	66		0.57	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Beryllium	0.42		0.23	0.050	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Calcium	6900	B	11	3.7	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Chromium	11	B	2.9	0.099	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Cobalt	10		0.29	0.065	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Copper	5.6		0.57	0.12	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Iron	18000	B	11	4.4	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Lead	12		0.29	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Magnesium	4400	B	5.7	2.3	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Manganese	540		0.57	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Nickel	9.3	B	0.57	0.16	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Potassium	510		29	4.7	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Selenium	0.94		0.57	0.28	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Sodium	1100		57	7.6	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Vanadium	18		0.29	0.084	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	1
Zinc	27		1.1	0.36	mg/Kg	☼	03/12/16 13:21	03/15/16 15:26	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		03/20/16 18:00	03/22/16 10:21	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		03/21/16 18:30	03/22/16 17:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		18	9.5	ug/Kg	☼	03/19/16 15:30	03/22/16 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			03/15/16 14:02	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-4(0-1)-031016

Lab Sample ID: 500-108665-9

Date Collected: 03/10/16 09:20

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/15/16 01:00	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 01:00	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 01:00	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:00	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:00	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 01:00	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 01:00	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 01:00	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/15/16 01:00	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:00	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:00	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 01:00	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:00	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 01:00	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/15/16 01:00	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:00	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
1,1,2,2-Tetrachloroethane	<5.5 *		5.5	0.87	ug/Kg	☼		03/15/16 01:00	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 01:00	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:00	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 01:00	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:00	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 01:00	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:00	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 01:00	1
Dibromofluoromethane	111		75 - 120		03/15/16 01:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/15/16 01:00	1
Toluene-d8 (Surr)	102		75 - 122		03/15/16 01:00	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	39	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-4(0-1)-031016

Lab Sample ID: 500-108665-9

Date Collected: 03/10/16 09:20

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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	☼	03/15/16 06:55	03/21/16 22:36	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
3,3'-Dichlorobenzidine	<180 *		180	50	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Acenaphthene	23 J		36	6.5	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Anthracene	34 J		36	6.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Benzo[a]anthracene	200 *		36	4.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Benzo[a]pyrene	150 *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Benzo[b]fluoranthene	270 *		36	7.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Benzo[g,h,i]perylene	120 *		36	12	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Benzo[k]fluoranthene	110 *		36	11	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Carbazole	<180		180	90	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Chrysene	260 *		36	9.8	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Dibenz(a,h)anthracene	25 J *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Fluoranthene	290		36	6.7	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Fluorene	16 J		36	5.1	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-4(0-1)-031016

Lab Sample ID: 500-108665-9

Date Collected: 03/10/16 09:20

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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	110	*	36	9.3	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Phenanthrene	270		36	5.0	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Phenol	<180		180	80	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Pyrene	1300	*	36	7.2	ug/Kg	☼	03/15/16 06:55	03/21/16 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		35 - 137				03/15/16 06:55	03/21/16 22:36	1
2-Fluorobiphenyl	95		25 - 119				03/15/16 06:55	03/21/16 22:36	1
2-Fluorophenol	90		25 - 110				03/15/16 06:55	03/21/16 22:36	1
Nitrobenzene-d5	86		25 - 115				03/15/16 06:55	03/21/16 22:36	1
Phenol-d5	93		31 - 110				03/15/16 06:55	03/21/16 22:36	1
Terphenyl-d14	206	X *	36 - 134				03/15/16 06:55	03/21/16 22:36	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		03/21/16 09:00	03/22/16 21:29	1
Barium	0.22	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Iron	0.34	J	0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:29	1
Manganese	0.80		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:29	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:29	1
Zinc	2.0		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:29	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		03/22/16 08:10	03/23/16 00:58	1
Barium	0.087	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 00:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 14:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 00:58	1
Chromium	0.014	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:02	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 00:58	1
Iron	11		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 14:02	1
Lead	0.014		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 14:02	1
Manganese	0.14		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 00:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-4(0-1)-031016

Lab Sample ID: 500-108665-9

Date Collected: 03/10/16 09:20

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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		03/22/16 08:10	03/23/16 00:58	1
Zinc	0.071	J ^ B *	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 00:58	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	☼	03/12/16 13:21	03/15/16 15:31	1
Arsenic	1.1		0.52	0.24	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Barium	15		0.52	0.095	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Beryllium	0.11	J	0.21	0.045	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Cadmium	0.034	J	0.10	0.030	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Calcium	22000	B	10	3.3	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Chromium	4.2	B	2.6	0.089	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Cobalt	1.2		0.26	0.058	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Copper	1.9		0.52	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Iron	3200	B	10	4.0	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Lead	6.2		0.26	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Magnesium	13000	B	5.2	2.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Manganese	89		0.52	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Nickel	3.4	B	0.52	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Potassium	280		26	4.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Sodium	400		52	6.8	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Vanadium	5.5		0.26	0.076	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	1
Zinc	11		1.0	0.33	mg/Kg	☼	03/12/16 13:21	03/15/16 15:31	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		03/20/16 18:00	03/22/16 10:23	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		03/21/16 18:30	03/22/16 14:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/19/16 15:30	03/22/16 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			03/15/16 14:07	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-5(0-1)-031016

Lab Sample ID: 500-108665-10

Date Collected: 03/10/16 09:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 01:26	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 01:26	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/15/16 01:26	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 01:26	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 01:26	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 01:26	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/15/16 01:26	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 01:26	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/15/16 01:26	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/15/16 01:26	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 01:26	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 01:26	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 01:26	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 01:26	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/15/16 01:26	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 01:26	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
1,1,2,2-Tetrachloroethane	<5.4 *		5.4	0.86	ug/Kg	☼		03/15/16 01:26	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 01:26	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 01:26	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 01:26	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 01:26	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 01:26	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 01:26	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 01:26	1
Dibromofluoromethane	111		75 - 120		03/15/16 01:26	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		03/15/16 01:26	1
Toluene-d8 (Surr)	103		75 - 122		03/15/16 01:26	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	☼	03/15/16 06:55	03/23/16 01:49	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-5(0-1)-031016

Lab Sample ID: 500-108665-10

Date Collected: 03/10/16 09:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.1

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	☼	03/15/16 06:55	03/23/16 01:49	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Methylnaphthalene	6.6	J	34	6.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Acenaphthene	14	J	34	6.2	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Acenaphthylene	36		34	4.5	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Anthracene	27	J	34	5.7	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Benzo[a]anthracene	100	*	34	4.6	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Benzo[a]pyrene	150	*	34	6.6	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Benzo[b]fluoranthene	230	*	34	7.4	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Benzo[g,h,i]perylene	120	*	34	11	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Benzo[k]fluoranthene	95	*	34	10	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Bis(2-ethylhexyl) phthalate	<170	*	170	63	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Carbazole	<170		170	86	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Chrysene	110	*	34	9.4	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Dibenz(a,h)anthracene	<34	*	34	6.6	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Fluoranthene	190		34	6.4	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Fluorene	6.9	J	34	4.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Hexachlorobenzene	<69		69	8.0	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-5(0-1)-031016

Lab Sample ID: 500-108665-10

Date Collected: 03/10/16 09:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.1

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	90	*	34	8.9	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Isophorone	<170		170	39	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Phenanthrene	69		34	4.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Phenol	<170		170	76	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Pyrene	290	*	34	6.8	ug/Kg	☼	03/15/16 06:55	03/23/16 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137				03/15/16 06:55	03/23/16 01:49	1
2-Fluorobiphenyl	91		25 - 119				03/15/16 06:55	03/23/16 01:49	1
2-Fluorophenol	88		25 - 110				03/15/16 06:55	03/23/16 01:49	1
Nitrobenzene-d5	87		25 - 115				03/15/16 06:55	03/23/16 01:49	1
Phenol-d5	71		31 - 110				03/15/16 06:55	03/23/16 01:49	1
Terphenyl-d14	161	X*	36 - 134				03/15/16 06:55	03/23/16 01:49	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		03/21/16 09:00	03/22/16 21:43	1
Barium	0.25	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Cobalt	0.013	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:43	1
Manganese	1.8		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:43	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:43	1
Zinc	1.1		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:43	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		03/22/16 08:10	03/23/16 01:02	1
Barium	0.10	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:02	1
Chromium	0.020	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:12	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:02	1
Iron	16		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:12	1
Lead	0.019		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:12	1
Manganese	0.20		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:12	1
Nickel	0.014	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-5(0-1)-031016

Lab Sample ID: 500-108665-10

Date Collected: 03/10/16 09:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 92.1

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		03/22/16 08:10	03/23/16 01:02	1
Zinc	0.49	J B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:12	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	☼	03/12/16 13:21	03/15/16 15:36	1
Arsenic	1.4		0.51	0.24	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Barium	19		0.51	0.094	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Beryllium	0.20	J	0.21	0.044	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Calcium	99000	B	100	33	mg/Kg	☼	03/12/16 13:21	03/17/16 08:42	10
Chromium	5.3	B	2.6	0.088	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Cobalt	2.0		0.26	0.058	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Copper	2.8		0.51	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Iron	4500	B	10	4.0	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Lead	8.0		0.26	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Magnesium	59000	B	51	21	mg/Kg	☼	03/12/16 13:21	03/17/16 08:42	10
Manganese	210		0.51	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Nickel	4.9	B	0.51	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Potassium	620		26	4.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Sodium	580		51	6.8	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Vanadium	6.5		0.26	0.075	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	1
Zinc	14		1.0	0.33	mg/Kg	☼	03/12/16 13:21	03/15/16 15:36	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		03/20/16 18:00	03/22/16 10:29	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		03/21/16 18:30	03/22/16 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/19/16 15:30	03/22/16 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			03/15/16 14:12	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016

Lab Sample ID: 500-108665-11

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 01:52	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 01:52	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 01:52	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:52	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:52	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 01:52	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 01:52	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 01:52	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 01:52	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/15/16 01:52	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:52	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:52	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 01:52	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:52	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 01:52	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/15/16 01:52	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 01:52	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
1,1,2,2-Tetrachloroethane	<5.5 *		5.5	0.87	ug/Kg	☼		03/15/16 01:52	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 01:52	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 01:52	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 01:52	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 01:52	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 01:52	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 01:52	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 01:52	1
Dibromofluoromethane	109		75 - 120		03/15/16 01:52	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/15/16 01:52	1
Toluene-d8 (Surr)	103		75 - 122		03/15/16 01:52	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	38	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016

Lab Sample ID: 500-108665-11

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

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	<350		350	81	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
3,3'-Dichlorobenzidine	<180 *		180	50	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Acenaphthene	7.5 J		35	6.4	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Acenaphthylene	38		35	4.7	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Anthracene	42		35	5.9	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Benzo[a]anthracene	350 *		35	4.8	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Benzo[a]pyrene	420 *		35	6.8	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Benzo[b]fluoranthene	680 *		35	7.6	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Benzo[g,h,i]perylene	250 *		35	11	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Benzo[k]fluoranthene	230 *		35	10	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Bis(2-ethylhexyl) phthalate	<180 *		180	65	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Butyl benzyl phthalate	<180 *		180	67	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Carbazole	<180		180	88	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Chrysene	380 *		35	9.6	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Dibenz(a,h)anthracene	52 *		35	6.8	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Fluoranthene	610		35	6.6	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Fluorene	9.0 J		35	5.0	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016

Lab Sample ID: 500-108665-11

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 91.2

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	220	*	35	9.2	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Phenanthrene	200		35	4.9	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Phenol	<180		180	79	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Pyrene	1200	*	35	7.0	ug/Kg	☼	03/15/16 06:55	03/23/16 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		35 - 137				03/15/16 06:55	03/23/16 02:18	1
2-Fluorobiphenyl	90		25 - 119				03/15/16 06:55	03/23/16 02:18	1
2-Fluorophenol	88		25 - 110				03/15/16 06:55	03/23/16 02:18	1
Nitrobenzene-d5	87		25 - 115				03/15/16 06:55	03/23/16 02:18	1
Phenol-d5	85		31 - 110				03/15/16 06:55	03/23/16 02:18	1
Terphenyl-d14	184	X *	36 - 134				03/15/16 06:55	03/23/16 02:18	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		03/21/16 09:00	03/22/16 21:48	1
Barium	0.27	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Cobalt	0.021	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:48	1
Manganese	1.5		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:48	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:48	1
Zinc	2.5		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:06	1
Barium	0.32	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:06	1
Chromium	0.075		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:16	1
Cobalt	0.016	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:16	1
Copper	0.062		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:06	1
Iron	76		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:16	1
Lead	0.10		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:16	1
Manganese	0.71		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:16	1
Nickel	0.070		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:06	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016

Lab Sample ID: 500-108665-11

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:10	03/23/16 01:06	1
Zinc	0.49	J B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:16	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	☼	03/12/16 13:21	03/15/16 15:41	1
Arsenic	1.7		0.53	0.24	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Barium	13		0.53	0.097	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Beryllium	0.19	J	0.21	0.046	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Cadmium	0.038	J	0.11	0.031	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Calcium	120000	B	110	34	mg/Kg	☼	03/12/16 13:21	03/17/16 08:46	10
Chromium	6.4	B	2.6	0.091	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Cobalt	2.1		0.26	0.060	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Copper	2.6		0.53	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Iron	4200	B	11	4.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Lead	21		0.26	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Magnesium	70000	B	53	21	mg/Kg	☼	03/12/16 13:21	03/17/16 08:46	10
Manganese	200		0.53	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Nickel	4.9	B	0.53	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Potassium	600		26	4.3	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Sodium	410		53	7.0	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Vanadium	6.8		0.26	0.077	mg/Kg	☼	03/12/16 13:21	03/15/16 15:41	1
Zinc	14		1.1	0.34	mg/Kg	☼	03/12/16 13:21	03/15/16 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		03/20/16 18:00	03/22/16 10:31	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		03/21/16 18:30	03/22/16 17:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/19/16 15:30	03/22/16 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			03/15/16 14:17	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016D

Lab Sample ID: 500-108665-12

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/15/16 02:18	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 02:18	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 02:18	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 02:18	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 02:18	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 02:18	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 02:18	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 02:18	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/15/16 02:18	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 02:18	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 02:18	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 02:18	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 02:18	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 02:18	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/15/16 02:18	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 02:18	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
1,1,2,2-Tetrachloroethane	<5.5 *		5.5	0.87	ug/Kg	☼		03/15/16 02:18	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 02:18	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 02:18	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 02:18	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 02:18	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 02:18	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 02:18	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 02:18	1
Dibromofluoromethane	110		75 - 120		03/15/16 02:18	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		03/15/16 02:18	1
Toluene-d8 (Surr)	104		75 - 122		03/15/16 02:18	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	39	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016D

Lab Sample ID: 500-108665-12

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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	☼	03/15/16 06:55	03/22/16 00:03	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Methylnaphthalene	24	J	36	6.6	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
2-Nitrophenol	<360		360	84	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Acenaphthene	71		36	6.4	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Acenaphthylene	170		36	4.7	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Anthracene	100		36	6.0	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Benzo[a]anthracene	620	*	36	4.8	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Benzo[a]pyrene	700	*	36	6.9	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Benzo[b]fluoranthene	1000	*	36	7.7	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Benzo[g,h,i]perylene	520	*	36	12	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Benzo[k]fluoranthene	450	*	36	11	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Carbazole	<180		180	89	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Chrysene	750	*	36	9.8	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Dibenz(a,h)anthracene	120	*	36	6.9	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Fluoranthene	990		36	6.6	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Fluorene	82		36	5.0	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016D

Lab Sample ID: 500-108665-12

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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	530	*	36	9.3	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Phenanthrene	780		36	5.0	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Phenol	<180		180	79	ug/Kg	☼	03/15/16 06:55	03/22/16 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/15/16 06:55	03/22/16 00:03	1
2-Fluorobiphenyl	82		25 - 119				03/15/16 06:55	03/22/16 00:03	1
2-Fluorophenol	79		25 - 110				03/15/16 06:55	03/22/16 00:03	1
Nitrobenzene-d5	81		25 - 115				03/15/16 06:55	03/22/16 00:03	1
Phenol-d5	77		31 - 110				03/15/16 06:55	03/22/16 00:03	1
Terphenyl-d14	192	X *	36 - 134				03/15/16 06:55	03/22/16 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	2900	*	71	14	ug/Kg	☼	03/15/16 06:55	03/23/16 04:40	2

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		03/21/16 09:00	03/22/16 21:53	1
Barium	0.33	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:53	1
Lead	0.0097		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:53	1
Manganese	1.5		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:53	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:53	1
Zinc	0.80		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:10	1
Barium	0.21	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:10	1
Chromium	0.051		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:20	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:20	1
Copper	0.040		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:10	1
Iron	50		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:20	1
Lead	0.11		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL96-6(0-1)-031016D

Lab Sample ID: 500-108665-12

Date Collected: 03/10/16 09:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:20	1
Nickel	0.045		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:10	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:10	1
Zinc	1.1	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:20	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	☼	03/12/16 13:21	03/15/16 15:46	1
Arsenic	1.4		0.53	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Barium	17		0.53	0.098	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Beryllium	0.23		0.21	0.046	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Cadmium	0.083	J	0.11	0.031	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Calcium	110000	B	110	34	mg/Kg	☼	03/12/16 13:21	03/17/16 08:58	10
Chromium	5.6	B	2.7	0.092	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Cobalt	2.4		0.27	0.060	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Copper	3.1		0.53	0.12	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Iron	5100	B	11	4.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Lead	18		0.27	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Magnesium	67000	B	53	22	mg/Kg	☼	03/12/16 13:21	03/17/16 08:58	10
Manganese	190		0.53	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Nickel	6.2	B	0.53	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Potassium	790		27	4.4	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Sodium	470		53	7.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Vanadium	6.6		0.27	0.078	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	1
Zinc	17		1.1	0.34	mg/Kg	☼	03/12/16 13:21	03/15/16 15:46	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		03/20/16 18:00	03/22/16 10:33	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		03/21/16 18:30	03/22/16 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.8	J	16	8.4	ug/Kg	☼	03/19/16 15:30	03/22/16 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU			03/15/16 14:22	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

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		TECP/SLP Metals		PH						Comments	
<u>IDOT-040</u>								<u>NOCs</u>		<u>SNOCs</u>									
Project Location/State		Lab Project #		Date		Time													
<u>Bridwood & Carter Park/IL</u>																			
Sampler		Lab PM																	
<u>T. Walls</u>		<u>D. Wright</u>																	
Lab ID	MS/MSD	Sample ID		Date		Time													
<u>1</u>		<u>F93-4(0-1)-031016</u>		<u>3-10-16</u>	<u>0810</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>F93-4(0-1)-031016D</u>			<u>0810</u>														
<u>3</u>		<u>F93-5(0-1)-031016</u>			<u>0825</u>														
<u>4</u>		<u>F93-6(0-1)-031016</u>			<u>0835</u>														
<u>5</u>		<u>R95-1(0-1)-031016</u>			<u>0840</u>														
<u>6</u>		<u>AL96-1(0-1)-031016</u>			<u>0850</u>														
<u>7</u>		<u>AL96-2(0-1)-031016</u>			<u>0900</u>														
<u>8</u>		<u>AL96-3(0-1)-031016</u>			<u>0910</u>														
<u>9</u>		<u>AL96-4(0-1)-031016</u>			<u>0920</u>														
<u>10</u>		<u>AL96-5(0-1)-031016</u>		<u>3-10-16</u>	<u>0930</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 stand 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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>IDOT Western</u>											
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>IDOT-040</u>											
Project Location/State		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>Bridlewood & Custer Park/A</u>											
Sampler		Lab PM		# of Containers		Matrix		Matrix		Comments	
<u>T. Walls</u>		<u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP/SPR Metals	AH
<u>11</u>		<u>AL96-6(0-1)-031016</u>	<u>3-10-16</u>	<u>0940</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>AL96-6(0-1)-031016B</u>		<u>0940</u>							
<u>13</u>		<u>R97-1(0-1)-031016</u>		<u>0950</u>							
<u>14</u>		<u>R97-2(0-1)-031016</u>		<u>1005</u>							
<u>15</u>		<u>RI98-1(0-1)-031016</u>		<u>1020</u>							
<u>16</u>		<u>R99-1(0-1)-031016</u>		<u>1030</u>							
<u>17</u>		<u>AL100-1(0-1)-031016</u>		<u>1045</u>							
<u>18</u>		<u>AL101-1(0-1)-031016</u>		<u>1105</u>							
<u>19</u>		<u>AL101-2(0-1)-031016</u>		<u>1115</u>							
<u>20</u>		<u>AL101-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1130</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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</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):
18901-18935 W. IL 113, (ISGS Site No. 2948-97)

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: 41.225343605 Longitude: -88.064520733
(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: 41.225343605 Longitude: -88.064520733

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 R97-1 AND R97-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-97. SEE FIGURES 3-15/3-16 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: 500-108665-1.
ALSO SEE FIGURES 4-15/4-16 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. 2948-97
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	R97-1(0-1)-031016	R97-2(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	3/10/2016	
Location ID	R97-1	R97-2	
Depth	0 - 1	0 - 1	
Location Code	2948-97	2948-97	
Parameter			
Laboratory pH	8.3	8.3	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)pyrene	460 J	460 J	90 / 1300 / 2100
Dibenzo(a,h)anthracene	88 J	94 J	90 / 200 / 420
Total Metals (mg/kg)			
Arsenic, Total	2.7	1.1	11.3 / 13
Barium, Total	47	35	1500
Beryllium, Total	0.3	0.19 J	22
Cadmium, Total	ND	0.059 J	5.2
Calcium, Total	28000 B	24000 B	---
Chromium, Total	9 B	ND	21
Iron, Total	8100 B	4400 B	15000 / 15900
Lead, Total	9.2	9.7	107
Manganese, Total	220	210	630 / 636
Mercury, Total	ND	0.0097 J	0.89
Nickel, Total	7.2 B	4.6 B	100
Potassium, Total	530	350	---
Selenium, Total	0.59	ND	1.3
Silver, Total	ND	ND	4.4
Zinc, Total	25	21	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.51	0.36 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	1.5	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	0.36 J	0.3 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.015 J	ND	0.05
Barium, SPLP	0.41 J	0.13 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.068	0.016 J	0.1
Iron, SPLP	65 J+	13 J+	5
Lead, SPLP	0.057	0.026	0.0075
Manganese, SPLP	1	0.4	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.044	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. 2948-97
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.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108665-1

Client Sample ID: R97-1(0-1)-031016

Lab Sample ID: 500-108665-13

Date Collected: 03/10/16 09:50

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 02:44	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/15/16 02:44	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 02:44	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 02:44	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 02:44	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 02:44	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/15/16 02:44	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 02:44	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 02:44	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 02:44	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/15/16 02:44	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 02:44	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/15/16 02:44	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/15/16 02:44	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 02:44	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 02:44	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 02:44	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/15/16 02:44	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/15/16 02:44	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 02:44	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 02:44	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
1,1,2,2-Tetrachloroethane	<5.6 *		5.6	0.90	ug/Kg	☼		03/15/16 02:44	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 02:44	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 02:44	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 02:44	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 02:44	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 02:44	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 02:44	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 02:44	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 02:44	1
Dibromofluoromethane	112		75 - 120		03/15/16 02:44	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/15/16 02:44	1
Toluene-d8 (Surr)	102		75 - 122		03/15/16 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-1(0-1)-031016

Lab Sample ID: 500-108665-13

Date Collected: 03/10/16 09:50

Matrix: Solid

Date Received: 03/10/16 16:55

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	84	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
3,3'-Dichlorobenzidine	<190 *		190	52	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Acenaphthene	10	J	37	6.6	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Acenaphthylene	91		37	4.9	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Anthracene	49		37	6.2	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Benzo[a]anthracene	340	*	37	5.0	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Benzo[a]pyrene	460	*	37	7.1	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Benzo[b]fluoranthene	630	*	37	8.0	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Benzo[g,h,i]perylene	390	*	37	12	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Benzo[k]fluoranthene	270	*	37	11	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Bis(2-ethylhexyl) phthalate	<190 *		190	67	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Butyl benzyl phthalate	<190 *		190	70	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Carbazole	<190		190	92	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Chrysene	380	*	37	10	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Dibenz(a,h)anthracene	88	*	37	7.1	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Fluoranthene	360		37	6.8	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Fluorene	14	J	37	5.2	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-1(0-1)-031016

Lab Sample ID: 500-108665-13

Date Collected: 03/10/16 09:50

Matrix: Solid

Date Received: 03/10/16 16:55

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	370	*	37	9.6	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Isophorone	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Phenanthrene	120		37	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Phenol	<190		190	82	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Pyrene	1200	*	37	7.3	ug/Kg	☼	03/15/16 06:55	03/22/16 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		35 - 137				03/15/16 06:55	03/22/16 00:33	1
2-Fluorobiphenyl	95		25 - 119				03/15/16 06:55	03/22/16 00:33	1
2-Fluorophenol	84		25 - 110				03/15/16 06:55	03/22/16 00:33	1
Nitrobenzene-d5	82		25 - 115				03/15/16 06:55	03/22/16 00:33	1
Phenol-d5	84		31 - 110				03/15/16 06:55	03/22/16 00:33	1
Terphenyl-d14	199	X *	36 - 134				03/15/16 06:55	03/22/16 00:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Barium	0.51		0.50	0.050	mg/L		03/21/16 09:00	03/22/16 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Cobalt	0.030		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 21:59	1
Manganese	1.2		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 21:59	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 21:59	1
Zinc	0.36	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:15	1
Barium	0.41	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:15	1
Chromium	0.068		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:41	1
Cobalt	0.020	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:41	1
Copper	0.037		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:15	1
Iron	65		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:41	1
Lead	0.057		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:41	1
Manganese	1.0		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:41	1
Nickel	0.044		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:15	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-1(0-1)-031016

Lab Sample ID: 500-108665-13

Date Collected: 03/10/16 09:50

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:10	03/23/16 01:15	1
Zinc	0.69	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:41	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	☼	03/12/16 13:21	03/15/16 15:51	1
Arsenic	2.7		0.54	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Barium	47		0.54	0.099	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Beryllium	0.30		0.22	0.047	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Calcium	28000	B	11	3.5	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Chromium	9.0	B	2.7	0.093	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Cobalt	5.2		0.27	0.061	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Copper	4.4		0.54	0.12	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Iron	8100	B	11	4.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Lead	9.2		0.27	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Magnesium	18000	B	5.4	2.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Manganese	220		0.54	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Nickel	7.2	B	0.54	0.15	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Potassium	530		27	4.4	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Selenium	0.59		0.54	0.27	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Sodium	760		54	7.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Vanadium	16		0.27	0.079	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	1
Zinc	25		1.1	0.34	mg/Kg	☼	03/12/16 13:21	03/15/16 15:51	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		03/20/16 18:00	03/22/16 10:35	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		03/21/16 18:30	03/22/16 17:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.4	ug/Kg	☼	03/19/16 15:30	03/22/16 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			03/15/16 14:27	1

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-2(0-1)-031016

Lab Sample ID: 500-108665-14

Date Collected: 03/10/16 10:05

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/15/16 03:10	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 03:10	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 03:10	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 03:10	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 03:10	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 03:10	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 03:10	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/15/16 03:10	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/15/16 03:10	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 03:10	1
1,2-Dichloropropane	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 03:10	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 03:10	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 03:10	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 03:10	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/15/16 03:10	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 03:10	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
1,1,2,2-Tetrachloroethane	<5.5 *		5.5	0.88	ug/Kg	☼		03/15/16 03:10	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 03:10	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 03:10	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 03:10	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 03:10	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 03:10	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 03:10	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 03:10	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 03:10	1
Dibromofluoromethane	109		75 - 120		03/15/16 03:10	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 03:10	1
Toluene-d8 (Surr)	102		75 - 122		03/15/16 03:10	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	☼	03/15/16 06:55	03/22/16 01:02	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-2(0-1)-031016

Lab Sample ID: 500-108665-14

Date Collected: 03/10/16 10:05

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Acenaphthene	71		36	6.5	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Acenaphthylene	26 J		36	4.8	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Anthracene	120		36	6.1	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Benzo[a]anthracene	410 *		36	4.9	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Benzo[a]pyrene	460 *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Benzo[b]fluoranthene	680 *		36	7.8	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Benzo[g,h,i]perylene	310 *		36	12	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Benzo[k]fluoranthene	330 *		36	11	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Bis(2-ethylhexyl) phthalate	<180 *		180	66	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Carbazole	<180		180	91	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Chrysene	480 *		36	9.9	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Dibenz(a,h)anthracene	94 *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Fluoranthene	640		36	6.7	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Fluorene	42		36	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-2(0-1)-031016

Lab Sample ID: 500-108665-14

Date Collected: 03/10/16 10:05

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.3

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	320	*	36	9.4	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Isophorone	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Phenanthrene	520		36	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Phenol	<180		180	81	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Pyrene	1400	*	36	7.2	ug/Kg	☼	03/15/16 06:55	03/22/16 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137				03/15/16 06:55	03/22/16 01:02	1
2-Fluorobiphenyl	84		25 - 119				03/15/16 06:55	03/22/16 01:02	1
2-Fluorophenol	80		25 - 110				03/15/16 06:55	03/22/16 01:02	1
Nitrobenzene-d5	79		25 - 115				03/15/16 06:55	03/22/16 01:02	1
Phenol-d5	77		31 - 110				03/15/16 06:55	03/22/16 01:02	1
Terphenyl-d14	183	X *	36 - 134				03/15/16 06:55	03/22/16 01:02	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		03/21/16 09:00	03/22/16 22:04	1
Barium	0.36	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 22:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 22:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 22:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 22:04	1
Manganese	1.5		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 22:04	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:04	1
Zinc	0.30	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:19	1
Barium	0.13	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:19	1
Chromium	0.016	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:45	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:19	1
Iron	13		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:45	1
Lead	0.026		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:45	1
Manganese	0.40		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R97-2(0-1)-031016

Lab Sample ID: 500-108665-14

Date Collected: 03/10/16 10:05

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 90.3

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		03/22/16 08:10	03/23/16 01:19	1
Zinc	0.45	J B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:45	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	☼	03/12/16 13:21	03/15/16 15:56	1
Arsenic	1.1		0.51	0.24	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Barium	35		0.51	0.093	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Beryllium	0.19	J	0.20	0.044	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Cadmium	0.059	J	0.10	0.030	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Calcium	24000	B	10	3.3	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Chromium	5.7	B	2.5	0.088	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Cobalt	2.6		0.25	0.058	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Copper	3.0		0.51	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Iron	4400	B	10	3.9	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Lead	9.7		0.25	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Magnesium	15000	B	5.1	2.1	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Manganese	210		0.51	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Nickel	4.6	B	0.51	0.14	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Potassium	350		25	4.2	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Sodium	570		51	6.7	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Vanadium	7.9		0.25	0.074	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	1
Zinc	21		1.0	0.32	mg/Kg	☼	03/12/16 13:21	03/15/16 15:56	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		03/20/16 18:00	03/22/16 10:37	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		03/21/16 18:30	03/22/16 14:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.7	J	16	8.5	ug/Kg	☼	03/19/16 15:30	03/22/16 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			03/15/16 14:32	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

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		TECP/SLP Metals		PH						Comments	
<u>IDOT-040</u>																			
Project Location/State		Lab Project #		Date		Time													
<u>Bridwood & Carter Park/IL</u>																			
Sampler		Lab PM																	
<u>T. Walls</u>		<u>D. Wright</u>																	
Lab ID	MS/MSD	Sample ID		Date		Time													
<u>1</u>		<u>F93-4(0-1)-031016</u>		<u>3-10-16</u>	<u>0810</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>F93-4(0-1)-031016D</u>			<u>0810</u>														
<u>3</u>		<u>F93-5(0-1)-031016</u>			<u>0825</u>														
<u>4</u>		<u>F93-6(0-1)-031016</u>			<u>0835</u>														
<u>5</u>		<u>R95-1(0-1)-031016</u>			<u>0840</u>														
<u>6</u>		<u>AL96-1(0-1)-031016</u>			<u>0850</u>														
<u>7</u>		<u>AL96-2(0-1)-031016</u>			<u>0900</u>														
<u>8</u>		<u>AL96-3(0-1)-031016</u>			<u>0910</u>														
<u>9</u>		<u>AL96-4(0-1)-031016</u>			<u>0920</u>														
<u>10</u>		<u>AL96-5(0-1)-031016</u>		<u>3-10-16</u>	<u>0930</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 stand 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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		Preservative		Parameter		Matrix		Comments	
<u>IDOT Western</u>		<u>IDOT-040</u>									
Project Location/State		Lab Project #		Sampling		# of Containers		Matrix		Preservative Key	
<u>Bridlewood & Custer Park/A</u>				Date Time		Matrix				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	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP/SPR Metals	AH
<u>11</u>		<u>AL96-6(0-1)-031016</u>	<u>3-10-16</u>	<u>0940</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>AL96-6(0-1)-031016B</u>		<u>0940</u>							
<u>13</u>		<u>R97-1(0-1)-031016</u>		<u>0950</u>							
<u>14</u>		<u>R97-2(0-1)-031016</u>		<u>1005</u>							
<u>15</u>		<u>RI98-1(0-1)-031016</u>		<u>1020</u>							
<u>16</u>		<u>R99-1(0-1)-031016</u>		<u>1030</u>							
<u>17</u>		<u>AL100-1(0-1)-031016</u>		<u>1045</u>							
<u>18</u>		<u>AL101-1(0-1)-031016</u>		<u>1105</u>							
<u>19</u>		<u>AL101-2(0-1)-031016</u>		<u>1115</u>							
<u>20</u>		<u>AL101-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1130</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 _____

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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</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):

18735 W. IL 113, (ISGS Site No. 2948-99)

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: 41.224620827 Longitude: -88.060531339
(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: 41.224620827 Longitude: -88.060531339Uncontaminated 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 R99-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-99. SEE FIGURE 3-16 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: 500-108665-1.
ALSO SEE FIGURE 4-16 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

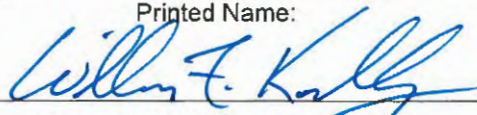
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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. 2948-99
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	R99-1(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	
Location ID	R99-1	
Depth	0 - 1	
Location Code	2948-99	
Parameter		
Laboratory pH	7.7	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	47 J	900 / 1100 / 1800
Benzo(a)pyrene	58 J	90 / 1300 / 2100
Benzo(b)fluoranthene	78 J	900 / 1500 / 2100
Indeno(1,2,3-cd)pyrene	97 J	900 / 900 / 1600
Total Metals (mg/kg)		
Arsenic, Total	5.8	11.3 / 13
Barium, Total	61	1500
Beryllium, Total	0.44	22
Cadmium, Total	ND	5.2
Calcium, Total	81000 B	---
Chromium, Total	12 B	21
Iron, Total	14000 B	15000 / 15900
Lead, Total	16	107
Manganese, Total	330	630 / 636
Mercury, Total	0.043	0.89
Nickel, Total	15 B	100
Potassium, Total	850	---
Selenium, Total	0.34 J	1.3
Silver, Total	ND	4.4
Zinc, Total	47	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.5	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	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.046 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.061	0.05
Barium, SPLP	0.75	2
Beryllium, SPLP	0.007	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.16	0.1
Iron, SPLP	190 J+	5
Lead, SPLP	0.095	0.0075
Manganese, SPLP	1.5	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.15	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	1.1 J+	5

Summary Table of ISGS Site No. 2948-99
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.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

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

LINKS

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results through
TotalAccess

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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: 500-108665-1

Client Sample ID: R99-1(0-1)-031016

Lab Sample ID: 500-108665-16

Date Collected: 03/10/16 10:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/15/16 04:02	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/15/16 04:02	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 04:02	1
Bromomethane	<6.1		6.1	2.3	ug/Kg	☼		03/15/16 04:02	1
Carbon disulfide	<6.1		6.1	2.3	ug/Kg	☼		03/15/16 04:02	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 04:02	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/15/16 04:02	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 04:02	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 04:02	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 04:02	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/15/16 04:02	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 04:02	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/15/16 04:02	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 04:02	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 04:02	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 04:02	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 04:02	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/15/16 04:02	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/15/16 04:02	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 04:02	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 04:02	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
1,1,2,2-Tetrachloroethane	<6.1 *		6.1	0.97	ug/Kg	☼		03/15/16 04:02	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 04:02	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/15/16 04:02	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 04:02	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 04:02	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 04:02	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 04:02	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 04:02	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 04:02	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/15/16 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 04:02	1
Dibromofluoromethane	112		75 - 120		03/15/16 04:02	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		03/15/16 04:02	1
Toluene-d8 (Surr)	100		75 - 122		03/15/16 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R99-1(0-1)-031016

Lab Sample ID: 500-108665-16

Date Collected: 03/10/16 10:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,4-Dinitrophenol	<820		820	710	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
3,3'-Dichlorobenzidine	<200 *		200	57	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4,6-Dinitro-2-methylphenol	<820		820	320	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
4-Nitrophenol	<820		820	380	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Acenaphthylene	17 J		40	5.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Anthracene	8.0 J		40	6.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Benzo[a]anthracene	47 *		40	5.4	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Benzo[a]pyrene	58 *		40	7.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Benzo[b]fluoranthene	78 *		40	8.7	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Benzo[g,h,i]perylene	160 *		40	13	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Benzo[k]fluoranthene	40 *		40	12	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Bis(2-ethylhexyl) phthalate	<200 *		200	74	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Butyl benzyl phthalate	<200 *		200	77	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Carbazole	<200		200	100	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Chrysene	48 *		40	11	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Dibenz(a,h)anthracene	<40 *		40	7.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Fluoranthene	37 J		40	7.5	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R99-1(0-1)-031016

Lab Sample ID: 500-108665-16

Date Collected: 03/10/16 10:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.7

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	97	*	40	10	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Isophorone	<200		200	45	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
N-Nitrosodi-n-propylamine	<82		82	49	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Phenanthrene	15	J	40	5.6	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Phenol	<200		200	90	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Pyrene	110	*	40	8.0	ug/Kg	☼	03/15/16 06:55	03/22/16 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				03/15/16 06:55	03/22/16 02:01	1
2-Fluorobiphenyl	88		25 - 119				03/15/16 06:55	03/22/16 02:01	1
2-Fluorophenol	83		25 - 110				03/15/16 06:55	03/22/16 02:01	1
Nitrobenzene-d5	77		25 - 115				03/15/16 06:55	03/22/16 02:01	1
Phenol-d5	84		31 - 110				03/15/16 06:55	03/22/16 02:01	1
Terphenyl-d14	187	X*	36 - 134				03/15/16 06:55	03/22/16 02:01	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		03/21/16 09:00	03/22/16 22:14	1
Barium	0.50		0.50	0.050	mg/L		03/21/16 09:00	03/22/16 22:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 22:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 22:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 22:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 22:14	1
Manganese	1.3		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 22:14	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:14	1
Zinc	0.046	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:35	1
Barium	0.75		0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:35	1
Beryllium	0.0070		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:35	1
Chromium	0.16		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:49	1
Cobalt	0.031		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:49	1
Copper	0.15		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:35	1
Iron	190		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:49	1
Lead	0.095		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:49	1
Manganese	1.5		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:49	1
Nickel	0.15		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: R99-1(0-1)-031016

Lab Sample ID: 500-108665-16

Date Collected: 03/10/16 10:30

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.7

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		03/22/16 08:10	03/23/16 01:35	1
Zinc	1.1	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:49	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	☼	03/12/16 13:21	03/15/16 16:07	1
Arsenic	5.8		0.60	0.28	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Barium	61		0.60	0.11	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Beryllium	0.44		0.24	0.052	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Calcium	81000	B	120	39	mg/Kg	☼	03/12/16 13:21	03/17/16 09:06	10
Chromium	12	B	3.0	0.10	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Cobalt	6.1		0.30	0.068	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Copper	11		0.60	0.13	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Iron	14000	B	12	4.6	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Lead	16		0.30	0.15	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Magnesium	42000	B	6.0	2.4	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Manganese	330		0.60	0.12	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Nickel	15	B	0.60	0.16	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Potassium	850		30	4.9	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Selenium	0.34	J	0.60	0.30	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Sodium	1100		60	7.9	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Vanadium	18		0.30	0.087	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	1
Zinc	47		1.2	0.38	mg/Kg	☼	03/12/16 13:21	03/15/16 16:07	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		03/20/16 18:00	03/22/16 10:41	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		03/21/16 18:30	03/22/16 14:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		19	9.9	ug/Kg	☼	03/19/16 15:30	03/22/16 20:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			03/15/16 14:46	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

Client		Client Project #		Preservative		Parameter		Total Metals		TECP/SLP Metals		pH		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									Comments
Lab ID	MS/MSD	Sample ID	Date	Time											
Weston															
IDOT-040															
Bridwood & Carter Park/IL		D. Wright													
T. Walls															
1		F93-4(0-1)-031016	3-10-16	0810	2	S	X	X	X	X	X				
2		F93-4(0-1)-031016D		0810											
3		F93-5(0-1)-031016		0825											
4		F93-6(0-1)-031016		0835											
5		R95-1(0-1)-031016		0840											
6		AL96-1(0-1)-031016		0850											
7		AL96-2(0-1)-031016		0900											
8		AL96-3(0-1)-031016		0910											
9		AL96-4(0-1)-031016		0920											
10		AL96-5(0-1)-031016	3-10-16	0930	2	S	X	X	X	X	X				

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days stand 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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		Preservative		Parameter														
<u>IDOT Western</u>		<u>IDOT-040</u>																		
Project Location/State		Lab Project #																		
<u>Bridlewood & Cresta Park/A</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	TRP/SPR metals	ATH	Preservative Key								
			Date	Time								1. HCL, Cool to 4°	2. H2SO4, Cool to 4°	3. HNO3, Cool to 4°	4. NaOH, Cool to 4°	5. NaOH/Zn, Cool to 4°	6. NaHSO4	7. Cool to 4°	8. None	9. Other
<u>11</u>		<u>AL96-6(0-1)-031016</u>	<u>3-10-16</u>	<u>0940</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>AL96-6(0-1)-031016B</u>		<u>0940</u>																
<u>13</u>		<u>R97-1(0-1)-031016</u>		<u>0950</u>																
<u>14</u>		<u>R97-2(0-1)-031016</u>		<u>1005</u>																
<u>15</u>		<u>RI98-1(0-1)-031016</u>		<u>1020</u>																
<u>16</u>		<u>R99-1(0-1)-031016</u>		<u>1030</u>																
<u>17</u>		<u>AL100-1(0-1)-031016</u>		<u>1045</u>																
<u>18</u>		<u>AL101-1(0-1)-031016</u>		<u>1105</u>																
<u>19</u>		<u>AL101-2(0-1)-031016</u>		<u>1115</u>																
<u>20</u>		<u>AL101-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1130</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>3-10-16</u>	Time: <u>1520</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/10/16</u>	Time: <u>1520</u>	Lab Courier: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/10/16</u>	Time: <u>1655</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CPT</u>	Date: <u>3/10/16</u>	Time: <u>1655</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):
18600 Block of W. IL 113, (ISGS Site No. 2948-100)

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: 41.224365151 Longitude: -88.059125005
(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: 41.224365151 Longitude: -88.059125005

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 AL100-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-100. SEE FIGURE 3-16 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: 500-108665-1.
ALSO SEE FIGURE 4-16 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. 2948-100
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	AL100-1(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	
Location ID	AL100-1	
Depth	0 - 1	
Location Code	2948-100	
Parameter		
Laboratory pH	8.24	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	110 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	2.6	11.3 / 13
Barium, Total	48	1500
Beryllium, Total	0.25	22
Cadmium, Total	0.066 J	5.2
Calcium, Total	89000 J	---
Chromium, Total	5.2	21
Iron, Total	6400 J	15000 / 15900
Lead, Total	7.4	107
Manganese, Total	510	630 / 636
Mercury, Total	0.016	0.89
Nickel, Total	6.9	100
Potassium, Total	470 J+	---
Selenium, Total	0.43 J	1.3
Silver, Total	ND	4.4
Zinc, Total	33	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.43 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	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.57	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.21 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.035	0.1
Iron, SPLP	34 J+	5
Lead, SPLP	0.025	0.0075
Manganese, SPLP	0.89	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	0.99 J+	5

Summary Table of ISGS Site No. 2948-100
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.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

Richard Wright, Senior Project Manager
(708)534-5200
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
- 3
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- 5
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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: 500-108665-1

Client Sample ID: AL100-1(0-1)-031016

Lab Sample ID: 500-108665-17

Date Collected: 03/10/16 10:45

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 04:29	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/15/16 04:29	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 04:29	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 04:29	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/15/16 04:29	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 04:29	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 04:29	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/15/16 04:29	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/15/16 04:29	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 04:29	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 04:29	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 04:29	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 04:29	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/15/16 04:29	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/15/16 04:29	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 04:29	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
1,1,2,2-Tetrachloroethane	<5.7 *		5.7	0.90	ug/Kg	☼		03/15/16 04:29	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 04:29	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 04:29	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 04:29	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 04:29	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 04:29	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 04:29	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 04:29	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 04:29	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 04:29	1
Dibromofluoromethane	111		75 - 120		03/15/16 04:29	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 04:29	1
Toluene-d8 (Surr)	101		75 - 122		03/15/16 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL100-1(0-1)-031016

Lab Sample ID: 500-108665-17

Date Collected: 03/10/16 10:45

Matrix: Solid

Date Received: 03/10/16 16:55

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	86	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
3,3'-Dichlorobenzidine	<190 *		190	53	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Acenaphthylene	39		37	5.0	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Anthracene	11 J		37	6.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Benzo[a]anthracene	66 *		37	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Benzo[a]pyrene	110 *		37	7.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Benzo[b]fluoranthene	140 *		37	8.1	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Benzo[g,h,i]perylene	200 *		37	12	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Benzo[k]fluoranthene	70 *		37	11	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Bis(2-ethylhexyl) phthalate	130 J *		190	69	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Butyl benzyl phthalate	<190 *		190	72	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Carbazole	<190		190	94	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Chrysene	80 *		37	10	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Dibenz(a,h)anthracene	<37 *		37	7.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Fluoranthene	54		37	7.0	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL100-1(0-1)-031016

Lab Sample ID: 500-108665-17

Date Collected: 03/10/16 10:45

Matrix: Solid

Date Received: 03/10/16 16:55

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	100	*	37	9.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Isophorone	<190		190	42	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Phenanthrene	23	J	37	5.2	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Phenol	<190		190	84	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Pyrene	210	*	37	7.5	ug/Kg	☼	03/15/16 06:55	03/22/16 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/15/16 06:55	03/22/16 02:30	1
2-Fluorobiphenyl	97		25 - 119				03/15/16 06:55	03/22/16 02:30	1
2-Fluorophenol	86		25 - 110				03/15/16 06:55	03/22/16 02:30	1
Nitrobenzene-d5	81		25 - 115				03/15/16 06:55	03/22/16 02:30	1
Phenol-d5	90		31 - 110				03/15/16 06:55	03/22/16 02:30	1
Terphenyl-d14	206	X*	36 - 134				03/15/16 06:55	03/22/16 02:30	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		03/21/16 09:00	03/22/16 22:20	1
Barium	0.43	J	0.50	0.050	mg/L		03/21/16 09:00	03/22/16 22:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 22:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 22:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/22/16 22:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 22:20	1
Manganese	1.3		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 22:20	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:20	1
Zinc	0.57		0.50	0.020	mg/L		03/21/16 09:00	03/22/16 22:20	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		03/22/16 08:10	03/23/16 01:40	1
Barium	0.21	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 13:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:40	1
Chromium	0.035		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:32	1
Copper	0.024	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:40	1
Iron	34		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 13:32	1
Lead	0.025		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 13:32	1
Manganese	0.89		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:32	1
Nickel	0.027		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 13:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:40	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL100-1(0-1)-031016

Lab Sample ID: 500-108665-17

Date Collected: 03/10/16 10:45

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:10	03/23/16 01:40	1
Zinc	0.99	B	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 13:32	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	☼	03/17/16 08:44	03/22/16 08:21	1
Arsenic	2.6		0.56	0.26	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Barium	48		0.56	0.10	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Beryllium	0.25		0.22	0.048	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Cadmium	0.066	J	0.11	0.032	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Calcium	89000	B	110	36	mg/Kg	☼	03/17/16 08:44	03/23/16 05:49	10
Chromium	5.2		2.8	0.096	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Cobalt	5.4		0.28	0.063	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Copper	4.2		0.56	0.12	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Iron	6400		11	4.3	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Lead	7.4		0.28	0.14	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Magnesium	42000	B ^	5.6	2.3	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Manganese	510		0.56	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Nickel	6.9		0.56	0.15	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Potassium	470		28	4.6	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Selenium	0.43	J	0.56	0.28	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Sodium	690		56	7.4	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Vanadium	11		0.28	0.082	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	1
Zinc	33		1.1	0.35	mg/Kg	☼	03/17/16 08:44	03/22/16 08:21	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		03/20/16 18:00	03/22/16 10:43	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		03/21/16 18:30	03/22/16 14:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16		16	8.6	ug/Kg	☼	03/19/16 15:30	03/22/16 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			03/15/16 14:51	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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





500-108665 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108665
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: 34

Client		Client Project #		Preservative		Parameter		Total Metals		TECP/SLP Metals		pH		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								
Project Location/State		Sampler		Date		Time								
Lab ID	MS/MSD	Sample ID											Comments	
Weston														
IDOT-040														
Bridwood & Carter Park/IL		T. Walls				D. Wright								
1		F93-4(0-1)-031016	3-10-16	0810	2	S			X	X	X	X	X	
2		F93-4(0-1)-031016D		0810										
3		F93-5(0-1)-031016		0825										
4		F93-6(0-1)-031016		0835										
5		R95-1(0-1)-031016		0840										
6		AL96-1(0-1)-031016		0850										
7		AL96-2(0-1)-031016		0900										
8		AL96-3(0-1)-031016		0910										
9		AL96-4(0-1)-031016		0920										
10		AL96-5(0-1)-031016	3-10-16	0930	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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>3/10/16</u>	Time <u>1655</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) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		Preservative		Parameter														Preservative Key	
<u>IDOT Western</u>		<u>IDOT-040</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 Location/State		Lab Project #		Sampling		# of Containers		Matrix												Comments	
<u>Bridlewood & Custer Park/A</u>				Date Time		Matrix															
Sampler		Lab PM																			
<u>T. Walls</u>		<u>D. Wright</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP/SPR Metals	ATH										
11		AL96-6(0-1)-031016	3-10-16	0940	2	S	X	X	X	X	X										
12		AL96-6(0-1)-031016B		0940																	
13		R97-1(0-1)-031016		0950																	
14		R97-2(0-1)-031016		1005																	
15		RI98-1(0-1)-031016		1020																	
16		R99-1(0-1)-031016		1030																	
17		AL100-1(0-1)-031016		1045																	
18		AL101-1(0-1)-031016		1105																	
19		AL101-2(0-1)-031016		1115																	
20		AL101-3(0-1)-031016	3-10-16	1130	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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>	Lab Courier <u>[Signature]</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</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):
18300-18600 Blocks of W. IL 113, (ISGS Site No. 2948-101)

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: 41.223814063 Longitude: -88.056016891
(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: 41.223814063 Longitude: -88.056016891

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 AL101-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-101. SEE FIGURE 3-16 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: 500-108665-1.
ALSO SEE FIGURE 4-16 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. 2948-101
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	AL101-2(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	
Location ID	AL101-2	
Depth	0 - 1	
Location Code	2948-101	
Parameter		
Laboratory pH	8.2	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	160 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	4	11.3 / 13
Barium, Total	79	1500
Beryllium, Total	0.33	22
Cadmium, Total	0.068 J	5.2
Calcium, Total	10000 J	---
Chromium, Total	8.3	21
Iron, Total	9300 J	15000 / 15900
Lead, Total	17	107
Manganese, Total	610	630 / 636
Mercury, Total	0.013 J	0.89
Nickel, Total	9.3	100
Potassium, Total	580 J+	---
Selenium, Total	0.34 J	1.3
Silver, Total	ND	4.4
Zinc, Total	35	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.52	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.23 J	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.1 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.015 J	0.05
Barium, SPLP	0.36 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.066	0.1
Iron, SPLP	62 J+	5
Lead, SPLP	0.051	0.0075
Manganese, SPLP	1.1	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.048	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	ND	5

Summary Table of ISGS Site No. 2948-101
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.

^A - 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: 500-108665-1
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:
3/23/2016 5:05:38 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108665-1

Client Sample ID: AL101-2(0-1)-031016

Lab Sample ID: 500-108665-19

Date Collected: 03/10/16 11:15

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 05:21	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/15/16 05:21	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 05:21	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 05:21	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/15/16 05:21	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 05:21	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 05:21	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/15/16 05:21	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/15/16 05:21	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 05:21	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 05:21	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 05:21	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 05:21	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/15/16 05:21	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/15/16 05:21	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 05:21	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
1,1,2,2-Tetrachloroethane	<5.7 *		5.7	0.91	ug/Kg	☼		03/15/16 05:21	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 05:21	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 05:21	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 05:21	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 05:21	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 05:21	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 05:21	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 05:21	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 05:21	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 05:21	1
Dibromofluoromethane	112		75 - 120		03/15/16 05:21	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		03/15/16 05:21	1
Toluene-d8 (Surr)	102		75 - 122		03/15/16 05:21	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	39	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL101-2(0-1)-031016

Lab Sample ID: 500-108665-19

Date Collected: 03/10/16 11:15

Matrix: Solid

Date Received: 03/10/16 16:55

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	<360		360	83	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
3,3'-Dichlorobenzidine	<180 *		180	51	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Acenaphthylene	34 J		36	4.8	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Anthracene	20 J		36	6.1	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Benzo[a]anthracene	98 *		36	4.9	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Benzo[a]pyrene	160 *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Benzo[b]fluoranthene	240 *		36	7.9	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Benzo[g,h,i]perylene	250 *		36	12	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Benzo[k]fluoranthene	91 *		36	11	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Bis(2-ethylhexyl) phthalate	<180 *		180	67	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Butyl benzyl phthalate	<180 *		180	69	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Carbazole	<180		180	91	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Chrysene	140 *		36	9.9	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Dibenz(a,h)anthracene	39 *		36	7.0	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Fluoranthene	120		36	6.8	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL101-2(0-1)-031016

Lab Sample ID: 500-108665-19

Date Collected: 03/10/16 11:15

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 87.4

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	190	*	36	9.4	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Isophorone	<180		180	41	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Phenanthrene	58		36	5.1	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Phenol	<180		180	81	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Pyrene	380	*	36	7.2	ug/Kg	☼	03/15/16 06:55	03/22/16 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137				03/15/16 06:55	03/22/16 03:28	1
2-Fluorobiphenyl	91		25 - 119				03/15/16 06:55	03/22/16 03:28	1
2-Fluorophenol	79		25 - 110				03/15/16 06:55	03/22/16 03:28	1
Nitrobenzene-d5	75		25 - 115				03/15/16 06:55	03/22/16 03:28	1
Phenol-d5	82		31 - 110				03/15/16 06:55	03/22/16 03:28	1
Terphenyl-d14	180	X *	36 - 134				03/15/16 06:55	03/22/16 03:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Barium	0.52		0.50	0.050	mg/L		03/21/16 09:00	03/22/16 22:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/22/16 22:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/22/16 22:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Copper	0.011	J	0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Iron	0.23	J	0.40	0.20	mg/L		03/21/16 09:00	03/22/16 22:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/22/16 22:30	1
Manganese	1.3		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/22/16 22:30	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/22/16 22:30	1
Zinc	0.10	J	0.50	0.020	mg/L		03/21/16 09:00	03/22/16 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		03/22/16 08:10	03/23/16 01:49	1
Barium	0.36	J	0.50	0.050	mg/L		03/22/16 08:10	03/23/16 01:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:10	03/23/16 14:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:10	03/23/16 01:49	1
Chromium	0.066		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:11	1
Cobalt	0.015	J	0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:11	1
Copper	0.039		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 01:49	1
Iron	62		0.40	0.20	mg/L		03/22/16 08:10	03/23/16 14:11	1
Lead	0.051		0.0075	0.0075	mg/L		03/22/16 08:10	03/23/16 14:11	1
Manganese	1.1		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:11	1
Nickel	0.048		0.025	0.010	mg/L		03/22/16 08:10	03/23/16 14:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:10	03/23/16 01:49	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108665-1

Client Sample ID: AL101-2(0-1)-031016

Lab Sample ID: 500-108665-19

Date Collected: 03/10/16 11:15

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:10	03/23/16 01:49	1
Zinc	0.28	J ^ B *	0.50	0.020	mg/L		03/22/16 08:10	03/23/16 01:49	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	☼	03/17/16 08:44	03/22/16 08:31	1
Arsenic	4.0		0.54	0.25	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Barium	79		0.54	0.099	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Beryllium	0.33		0.22	0.047	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Cadmium	0.068	J	0.11	0.031	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Calcium	10000	B	11	3.5	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Chromium	8.3		2.7	0.093	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Cobalt	7.1		0.27	0.061	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Copper	7.3		0.54	0.12	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Iron	9300		11	4.2	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Lead	17		0.27	0.13	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Magnesium	6600	B ^	5.4	2.2	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Manganese	610		0.54	0.11	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Nickel	9.3		0.54	0.15	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Potassium	580		27	4.4	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Selenium	0.34	J	0.54	0.27	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Sodium	860		54	7.2	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Vanadium	16		0.27	0.079	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	1
Zinc	35		1.1	0.34	mg/Kg	☼	03/17/16 08:44	03/22/16 08:31	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		03/20/16 18:00	03/22/16 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 17:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	16	8.6	ug/Kg	☼	03/19/16 15:30	03/22/16 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			03/15/16 15:01	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108665-1

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
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance 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.
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.
*	LCS or LCSD is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-108665-1

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

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Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____ Bill To (optional) _____
 Contact: S. Babun Kumar Contact: _____
 Company: Western Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108605
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: _____

Client		Project Name		Preservative		Parameter														
<u>IDOT Western</u>		<u>IDOT-040</u>																		
Project Location/State		Lab Project #																		
<u>Bridlewood & Cresta Park/A</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	TRP/SP/PA metals	ATH	Preservative Key								
			Date	Time								1. HCL, Cool to 4°	2. H2SO4, Cool to 4°	3. HNO3, Cool to 4°	4. NaOH, Cool to 4°	5. NaOH/Zn, Cool to 4°	6. NaHSO4	7. Cool to 4°	8. None	9. Other
<u>11</u>		<u>AL96-6(0-1)-031016</u>	<u>3-10-16</u>	<u>0940</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>AL96-6(0-1)-031016B</u>		<u>0940</u>																
<u>13</u>		<u>R97-1(0-1)-031016</u>		<u>0950</u>																
<u>14</u>		<u>R97-2(0-1)-031016</u>		<u>1005</u>																
<u>15</u>		<u>RI98-1(0-1)-031016</u>		<u>1020</u>																
<u>16</u>		<u>R99-1(0-1)-031016</u>		<u>1030</u>																
<u>17</u>		<u>AL100-1(0-1)-031016</u>		<u>1045</u>																
<u>18</u>		<u>AL101-1(0-1)-031016</u>		<u>1105</u>																
<u>19</u>		<u>AL101-2(0-1)-031016</u>		<u>1115</u>																
<u>20</u>		<u>AL101-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1130</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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CPT</u>	Date <u>3/10/16</u>	Time <u>1655</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):

18300 Block of W. IL 113, (ISGS Site No. 2948-102)

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: 41.221748874 Longitude: -88.047604181
(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: 41.221748874 Longitude: -88.047604181

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 WL102-1 THROUGH WL102-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-102. SEE FIGURE 3-17 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: 500-108666-1.
ALSO SEE FIGURE 4-17 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. 2948-102
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	WL102-1(0-1)-031016	WL102-2(0-1)-031016	WL102-3(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	3/10/2016	3/10/2016	
Location ID	WL102-1	WL102-2	WL102-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-102	2948-102	2948-102	
Parameter				
Laboratory pH	7.65	8.48	7.65	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)pyrene	590 *	880 *	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	920 *	1500 *	ND	900 / 1500 / 2100
Dibenzo(a,h)anthracene	94 *	100 *	ND	90 / 200 / 420
Total Metals (mg/kg)				
Arsenic, Total	3.7	4.1	6	11.3 / 13
Barium, Total	22 J	55 J	59 J	1500
Beryllium, Total	0.28	0.46	0.5	22
Cadmium, Total	0.1 J	0.18	ND	5.2
Calcium, Total	28000 J	52000 J	2400 J	---
Chromium, Total	5.9 J	8.2 J	11 J	21
Iron, Total	7000 J	9500 J	14000 J	15000 / 15900
Lead, Total	36 J	39 J	12 J	107
Manganese, Total	200 J	390 J	450 J	630 / 636
Mercury, Total	0.035	0.043	0.048	0.89
Nickel, Total	7.3	10	16	100
Potassium, Total	410 J+	760 J+	510 J+	---
Selenium, Total	ND	ND	0.37 J	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	35 J	46 J	37 J	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.26 J	0.3 J	0.36 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	0.0029 J	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	1.2	0.017 J	0.049	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	0.22 J	0.14 J	0.11 J	5
SPLP Metals (mg/l)				
Arsenic, SPLP	0.019 J	0.017 J	0.039 J	0.05
Barium, SPLP	0.15 J	0.35 J	0.67	2
Beryllium, SPLP	ND	ND	0.0054	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.043	0.082	0.14	0.1
Iron, SPLP	44 J+	67 J+	130 J+	5
Lead, SPLP	0.11	0.17	0.1	0.0075
Manganese, SPLP	0.54	0.95	1.4	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.04	0.06	0.12	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.36 J	0.9 B	1.2 B	5

Summary Table of ISGS Site No. 2948-102
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.

^A - 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: 500-108666-1
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:
3/25/2016 1:42:31 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108666-1

Client Sample ID: WL102-1(0-1)-031016

Lab Sample ID: 500-108666-5

Date Collected: 03/10/16 13:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/15/16 11:16	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:16	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/15/16 11:16	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:16	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:16	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/15/16 11:16	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 11:16	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:16	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/15/16 11:16	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/15/16 11:16	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:16	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 11:16	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:16	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/15/16 11:16	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/15/16 11:16	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:16	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/15/16 11:16	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:16	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 11:16	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:16	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:16	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 11:16	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:16	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:16	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/15/16 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/15/16 11:16	1
Dibromofluoromethane	108		75 - 120		03/15/16 11:16	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 11:16	1
Toluene-d8 (Surr)	108		75 - 122		03/15/16 11:16	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	☼	03/16/16 10:04	03/24/16 17:18	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-1(0-1)-031016

Lab Sample ID: 500-108666-5

Date Collected: 03/10/16 13:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Methylnaphthalene	23	J	37	6.8	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Acenaphthene	20	J	37	6.7	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Acenaphthylene	140		37	4.9	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Anthracene	110		37	6.2	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Benzo[a]anthracene	530	*	37	5.0	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Benzo[a]pyrene	590	*	37	7.2	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Benzo[b]fluoranthene	920	*	37	8.0	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Benzo[g,h,i]perylene	380	*	37	12	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Benzo[k]fluoranthene	350	*	37	11	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Carbazole	<190		190	93	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Chrysene	570	*	37	10	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Dibenz(a,h)anthracene	94	*	37	7.2	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Fluoranthene	840		37	6.9	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Fluorene	31	J	37	5.2	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-1(0-1)-031016

Lab Sample ID: 500-108666-5

Date Collected: 03/10/16 13:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	350	*	37	9.6	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Isophorone	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Naphthalene	9.8	J	37	5.7	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Phenanthrene	430		37	5.2	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Phenol	<190		190	83	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Pyrene	1800	*	37	7.4	ug/Kg	☼	03/16/16 10:04	03/24/16 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		35 - 137				03/16/16 10:04	03/24/16 17:18	1
2-Fluorobiphenyl	75		25 - 119				03/16/16 10:04	03/24/16 17:18	1
2-Fluorophenol	65		25 - 110				03/16/16 10:04	03/24/16 17:18	1
Nitrobenzene-d5	64		25 - 115				03/16/16 10:04	03/24/16 17:18	1
Phenol-d5	71		31 - 110				03/16/16 10:04	03/24/16 17:18	1
Terphenyl-d14	170	X*	36 - 134				03/16/16 10:04	03/24/16 17:18	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		03/21/16 11:00	03/22/16 20:32	1
Barium	0.26	J	0.50	0.050	mg/L		03/21/16 11:00	03/22/16 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:17	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:17	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:32	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 20:32	1
Manganese	1.2		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 20:32	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:32	1
Zinc	0.22	J	0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 02:48	1
Barium	0.15	J	0.50	0.050	mg/L		03/22/16 08:11	03/23/16 02:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 02:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 02:48	1
Chromium	0.043		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:48	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/22/16 08:11	03/23/16 18:59	1
Copper	0.032		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:48	1
Iron	44		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 18:59	1
Lead	0.11		0.0075	0.0075	mg/L		03/22/16 08:11	03/23/16 02:48	1
Manganese	0.54		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:48	1
Nickel	0.040		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 02:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-1(0-1)-031016

Lab Sample ID: 500-108666-5

Date Collected: 03/10/16 13:10

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 86.4

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		03/22/16 08:11	03/23/16 02:48	1
Zinc	0.36	J B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 18:59	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	☼	03/17/16 09:48	03/22/16 09:47	1
Arsenic	3.7		0.56	0.26	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Barium	22		0.56	0.10	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Beryllium	0.28		0.22	0.049	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Cadmium	0.10	J	0.11	0.032	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Calcium	28000	B	11	3.6	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Chromium	5.9		0.56	0.096	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Cobalt	3.1		0.28	0.063	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Copper	6.2		0.56	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Iron	7000	B	11	4.3	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Lead	36		0.28	0.14	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Magnesium	17000	B ^	5.6	2.3	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Manganese	200	B	0.56	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Nickel	7.3		0.56	0.15	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Potassium	410		28	4.6	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Sodium	410		56	7.4	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Vanadium	10		0.28	0.082	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	1
Zinc	35		1.1	0.35	mg/Kg	☼	03/17/16 09:48	03/22/16 09:47	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 14:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		17	8.7	ug/Kg	☼	03/19/16 15:30	03/21/16 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			03/15/16 15:31	1

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-2(0-1)-031016

Lab Sample ID: 500-108666-6

Date Collected: 03/10/16 13:20

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 11:42	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:42	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/15/16 11:42	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:42	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:42	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/15/16 11:42	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 11:42	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:42	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/15/16 11:42	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/15/16 11:42	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:42	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 11:42	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:42	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/15/16 11:42	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/15/16 11:42	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 11:42	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/15/16 11:42	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 11:42	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 11:42	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 11:42	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:42	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 11:42	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 11:42	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 11:42	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 11:42	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/15/16 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 11:42	1
Dibromofluoromethane	107		75 - 120		03/15/16 11:42	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		03/15/16 11:42	1
Toluene-d8 (Surr)	107		75 - 122		03/15/16 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-2(0-1)-031016

Lab Sample ID: 500-108666-6

Date Collected: 03/10/16 13:20

Matrix: Solid

Date Received: 03/10/16 16:55

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	87	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Methylnaphthalene	26	J	38	7.0	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Acenaphthene	28	J	38	6.9	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Acenaphthylene	240		38	5.0	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Anthracene	110		38	6.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Benzo[a]anthracene	660		38	5.1	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Benzo[a]pyrene	880	*	38	7.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Benzo[b]fluoranthene	1500	*	38	8.2	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Benzo[g,h,i]perylene	400	*	38	12	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Benzo[k]fluoranthene	600	*	38	11	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Carbazole	<190		190	95	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Chrysene	840		38	10	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Dibenz(a,h)anthracene	100	*	38	7.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Fluoranthene	1400		38	7.1	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Fluorene	54		38	5.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-2(0-1)-031016

Lab Sample ID: 500-108666-6

Date Collected: 03/10/16 13:20

Matrix: Solid

Date Received: 03/10/16 16:55

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	430	*	38	9.9	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Isophorone	<190		190	43	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Naphthalene	10	J	38	5.9	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Phenanthrene	610		38	5.3	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Phenol	<190		190	85	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Pyrene	2000		38	7.6	ug/Kg	☼	03/16/16 10:04	03/23/16 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		35 - 137				03/16/16 10:04	03/23/16 15:19	1
2-Fluorobiphenyl	57		25 - 119				03/16/16 10:04	03/23/16 15:19	1
2-Fluorophenol	78		25 - 110				03/16/16 10:04	03/23/16 15:19	1
Nitrobenzene-d5	71		25 - 115				03/16/16 10:04	03/23/16 15:19	1
Phenol-d5	67		31 - 110				03/16/16 10:04	03/23/16 15:19	1
Terphenyl-d14	124		36 - 134				03/16/16 10:04	03/23/16 15:19	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		03/21/16 11:00	03/22/16 20:38	1
Barium	0.30	J	0.50	0.050	mg/L		03/21/16 11:00	03/22/16 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:22	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:38	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 20:38	1
Manganese	0.017	J	0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 20:38	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:38	1
Zinc	0.14	J	0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 02:52	1
Barium	0.35	J	0.50	0.050	mg/L		03/22/16 08:11	03/23/16 02:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 02:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 02:52	1
Chromium	0.082		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:52	1
Cobalt	0.017	J	0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:03	1
Copper	0.061		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:52	1
Iron	67		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 19:03	1
Lead	0.17		0.0075	0.0075	mg/L		03/22/16 08:11	03/23/16 02:52	1
Manganese	0.95		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:52	1
Nickel	0.060		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 02:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-2(0-1)-031016

Lab Sample ID: 500-108666-6

Date Collected: 03/10/16 13:20

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:11	03/23/16 02:52	1
Zinc	0.90	B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 19:03	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 09:48	03/22/16 09:52	1
Arsenic	4.1		0.56	0.26	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Barium	55		0.56	0.10	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Beryllium	0.46		0.22	0.048	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Cadmium	0.18		0.11	0.032	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Calcium	52000	B	110	36	mg/Kg	☼	03/17/16 09:48	03/23/16 05:25	10
Chromium	8.2		0.56	0.096	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Cobalt	4.9		0.28	0.063	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Copper	9.6		0.56	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Iron	9500	B	11	4.3	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Lead	39		0.28	0.14	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Magnesium	15000	B ^	5.6	2.3	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Manganese	390	B	0.56	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Nickel	10		0.56	0.15	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Potassium	760		28	4.5	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Sodium	1300		56	7.4	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Vanadium	16		0.28	0.081	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1
Zinc	46		1.1	0.35	mg/Kg	☼	03/17/16 09:48	03/22/16 09:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 14:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		18	9.5	ug/Kg	☼	03/19/16 15:30	03/21/16 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			03/15/16 15:36	1

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-3(0-1)-031016

Lab Sample ID: 500-108666-7

Date Collected: 03/10/16 13:40

Matrix: Solid

Date Received: 03/10/16 16:55

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	☼		03/15/16 12:08	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 12:08	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/15/16 12:08	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 12:08	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 12:08	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/15/16 12:08	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 12:08	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 12:08	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/15/16 12:08	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/15/16 12:08	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 12:08	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 12:08	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 12:08	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/15/16 12:08	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/15/16 12:08	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/15/16 12:08	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/15/16 12:08	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/15/16 12:08	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/15/16 12:08	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/15/16 12:08	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 12:08	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/15/16 12:08	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/15/16 12:08	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/15/16 12:08	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/15/16 12:08	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/15/16 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		03/15/16 12:08	1
Dibromofluoromethane	110		75 - 120		03/15/16 12:08	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/15/16 12:08	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 12:08	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	☼	03/16/16 10:04	03/23/16 13:24	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-3(0-1)-031016

Lab Sample ID: 500-108666-7

Date Collected: 03/10/16 13:40

Matrix: Solid

Date Received: 03/10/16 16:55

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	86	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Anthracene	<37		37	6.3	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Benzo[a]anthracene	5.5 J		37	5.1	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Carbazole	<190		190	94	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Chrysene	<37		37	10	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-3(0-1)-031016

Lab Sample ID: 500-108666-7

Date Collected: 03/10/16 13:40

Matrix: Solid

Date Received: 03/10/16 16:55

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	9.7	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Isophorone	<190		190	42	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Phenol	<190		190	83	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Pyrene	<37		37	7.5	ug/Kg	☼	03/16/16 10:04	03/23/16 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		35 - 137				03/16/16 10:04	03/23/16 13:24	1
2-Fluorobiphenyl	70		25 - 119				03/16/16 10:04	03/23/16 13:24	1
2-Fluorophenol	67		25 - 110				03/16/16 10:04	03/23/16 13:24	1
Nitrobenzene-d5	63		25 - 115				03/16/16 10:04	03/23/16 13:24	1
Phenol-d5	64		31 - 110				03/16/16 10:04	03/23/16 13:24	1
Terphenyl-d14	93		36 - 134				03/16/16 10:04	03/23/16 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		03/21/16 11:00	03/22/16 20:43	1
Barium	0.36	J	0.50	0.050	mg/L		03/21/16 11:00	03/22/16 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 20:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:27	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:43	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 20:43	1
Manganese	0.049		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 20:43	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:43	1
Zinc	0.11	J	0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 02:56	1
Barium	0.67		0.50	0.050	mg/L		03/22/16 08:11	03/23/16 02:56	1
Beryllium	0.0054		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 02:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 02:56	1
Chromium	0.14		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:56	1
Cobalt	0.027		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:07	1
Copper	0.088		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:56	1
Iron	130		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 19:07	1
Lead	0.10		0.0075	0.0075	mg/L		03/22/16 08:11	03/23/16 02:56	1
Manganese	1.4		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 02:56	1
Nickel	0.12		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 02:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: WL102-3(0-1)-031016

Lab Sample ID: 500-108666-7

Date Collected: 03/10/16 13:40

Matrix: Solid

Date Received: 03/10/16 16:55

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		03/22/16 08:11	03/23/16 02:56	1
Zinc	1.2	B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 19:07	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	☼	03/17/16 09:48	03/22/16 09:57	1
Arsenic	6.0		0.57	0.27	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Barium	59		0.57	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Calcium	2400	B	11	3.7	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Chromium	11		0.57	0.099	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Cobalt	7.1		0.29	0.065	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Copper	11		0.57	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Iron	14000	B	11	4.4	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Lead	12		0.29	0.14	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Magnesium	2200	B ^	5.7	2.3	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Manganese	450	B	0.57	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Nickel	16		0.57	0.16	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Potassium	510		29	4.7	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Selenium	0.37	J	0.57	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Sodium	940		57	7.6	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Vanadium	20		0.29	0.084	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	1
Zinc	37		1.1	0.36	mg/Kg	☼	03/17/16 09:48	03/22/16 09:57	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/24/16 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	48		17	8.9	ug/Kg	☼	03/19/16 15:30	03/21/16 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			03/15/16 15:41	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108666-1

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
*	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.
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
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☐	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: 500-108666-1

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
Phone: 708.534.5200 Fax: 708.5



500-108666 COC

Report To (optional)
Contact: S. Babushkumar
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108666
Chain of Custody Number: _____
Page 3 of 4
Temperature °C of Cooler: 2.8

Client		Client Project #		Preservative		Parameter		Total Metals		TEUP/SPUD 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	NOCs	SNOCs	Total Metals	TEUP/SPUD Metals	PH	Comments				
<u>IDOT-040</u>		<u>Richardson * Gustar Park / IL</u>													
Project Location/State		Lab PM													
<u>Richardson * Gustar Park / IL</u>		<u>D. Wright</u>													
Sampler		Sampling													
<u>T. Walls</u>		Date Time													
1		AL101-4(0-1)-031016	3-10-16 1140	2	S	X	X	X	X	X					
2		AL101-4(0-1)-031016D	1140												
3		AL101-5(0-1)-031016	1245												
4		AL101-6(0-1)-031016	1255												
5		WL102-1(0-1)-031016	1310												
6		WL102-2(0-1)-031016	1320												
7		WL102-3(0-1)-031016	1340												
8		AB103-1(0-1)-031016	1355												
9		AL104-1(0-1)-031016	1410												
10		AL104-2(0-1)-031016	3-10-16 1420	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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1655</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TR

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):
18300 Block of W. IL 113, (ISGS Site No. 2948-103)

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: 41.220255583 Longitude: -88.045434725
(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: 41.220255583 Longitude: -88.045434725

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 AB103-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-103. SEE FIGURE 3-17 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: 500-108666-1.
ALSO SEE FIGURE 4-17 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. 2948-103
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	AB103-1(0-1)-031016	Soil Reference Concentrations
Sample Date	3/10/2016	
Location ID	AB103-1	
Depth	0 - 1	
Location Code	2948-103	
Parameter		
Laboratory pH	8.23	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	100 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	4.8	11.3 / 13
Barium, Total	91 J	1500
Beryllium, Total	0.45	22
Cadmium, Total	0.1 J	5.2
Calcium, Total	30000 J	---
Chromium, Total	9.6 J	21
Iron, Total	11000 J	15000 / 15900
Lead, Total	18 J	107
Manganese, Total	600 J	630 / 636
Mercury, Total	0.038	0.89
Nickel, Total	11	100
Potassium, Total	810 J+	---
Selenium, Total	0.5 J	1.3
Silver, Total	ND	4.4
Zinc, Total	41 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.53	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	0.99	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.15 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.012 J	0.05
Barium, SPLP	0.41 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.069	0.1
Iron, SPLP	57 J+	5
Lead, SPLP	0.082	0.0075
Manganese, SPLP	1.3	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.048	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.41 J	5

Summary Table of ISGS Site No. 2948-103
Comparison of Detected Constituents to Applicable Reference Concentrations
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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.

^A - 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: 500-108666-1
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:
3/25/2016 1:42:31 PM

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

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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: 500-108666-1

Client Sample ID: AB103-1(0-1)-031016

Lab Sample ID: 500-108666-8

Date Collected: 03/10/16 13:55

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/15/16 12:34	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 12:34	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/15/16 12:34	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/15/16 12:34	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/15/16 12:34	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/15/16 12:34	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/15/16 12:34	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 12:34	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/15/16 12:34	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/15/16 12:34	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/15/16 12:34	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/15/16 12:34	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 12:34	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/15/16 12:34	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/15/16 12:34	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/15/16 12:34	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 12:34	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/15/16 12:34	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 12:34	1
Toluene	<6.2		6.2	2.1	ug/Kg	☼		03/15/16 12:34	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 12:34	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 12:34	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/15/16 12:34	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 12:34	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 12:34	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/15/16 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		03/15/16 12:34	1
Dibromofluoromethane	110		75 - 120		03/15/16 12:34	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/15/16 12:34	1
Toluene-d8 (Surr)	107		75 - 122		03/15/16 12:34	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	☼	03/16/16 10:04	03/23/16 15:47	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AB103-1(0-1)-031016

Lab Sample ID: 500-108666-8

Date Collected: 03/10/16 13:55

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Methylnaphthalene	70		40	7.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
3,3'-Dichlorobenzidine	<200 *		200	56	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Acenaphthene	26 J		40	7.2	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Acenaphthylene	26 J		40	5.3	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Anthracene	15 J		40	6.7	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Benzo[a]anthracene	65 *		40	5.4	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Benzo[a]pyrene	100 *		40	7.8	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Benzo[b]fluoranthene	160 *		40	8.7	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Benzo[g,h,i]perylene	63 *		40	13	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Benzo[k]fluoranthene	51 *		40	12	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Bis(2-ethylhexyl) phthalate	88 J *		200	74	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Butyl benzyl phthalate	<200 *		200	77	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Carbazole	<200		200	100	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Chrysene	89 *		40	11	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Dibenz(a,h)anthracene	<40 *		40	7.8	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Fluoranthene	100		40	7.5	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Fluorene	18 J		40	5.7	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AB103-1(0-1)-031016

Lab Sample ID: 500-108666-8

Date Collected: 03/10/16 13:55

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.3

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	55	*	40	10	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Isophorone	<200		200	45	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Naphthalene	9.8	J	40	6.2	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Phenanthrene	54		40	5.6	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Phenol	<200		200	90	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Pyrene	240	*	40	8.0	ug/Kg	☼	03/16/16 10:04	03/23/16 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		35 - 137				03/16/16 10:04	03/23/16 15:47	1
2-Fluorobiphenyl	73		25 - 119				03/16/16 10:04	03/23/16 15:47	1
2-Fluorophenol	94		25 - 110				03/16/16 10:04	03/23/16 15:47	1
Nitrobenzene-d5	72		25 - 115				03/16/16 10:04	03/23/16 15:47	1
Phenol-d5	74		31 - 110				03/16/16 10:04	03/23/16 15:47	1
Terphenyl-d14	157	X *	36 - 134				03/16/16 10:04	03/23/16 15:47	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		03/21/16 11:00	03/22/16 20:48	1
Barium	0.53		0.50	0.050	mg/L		03/21/16 11:00	03/22/16 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:32	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:48	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 20:48	1
Manganese	0.99		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 20:48	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 20:48	1
Zinc	0.15	J	0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 03:01	1
Barium	0.41	J	0.50	0.050	mg/L		03/22/16 08:11	03/23/16 03:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 03:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 03:01	1
Chromium	0.069		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:01	1
Cobalt	0.014	J	0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:21	1
Copper	0.035		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:01	1
Iron	57		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 19:21	1
Lead	0.082		0.0075	0.0075	mg/L		03/22/16 08:11	03/23/16 03:01	1
Manganese	1.3		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:01	1
Nickel	0.048		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 03:01	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AB103-1(0-1)-031016

Lab Sample ID: 500-108666-8

Date Collected: 03/10/16 13:55

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.3

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		03/22/16 08:11	03/23/16 03:01	1
Zinc	0.41	J B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 19:21	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 09:48	03/22/16 10:02	1
Arsenic	4.8		0.59	0.27	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Barium	91		0.59	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Beryllium	0.45		0.24	0.051	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Cadmium	0.10	J	0.12	0.034	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Calcium	30000	B	12	3.8	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Chromium	9.6		0.59	0.10	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Cobalt	7.5		0.29	0.067	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Copper	8.3		0.59	0.13	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Iron	11000	B	12	4.5	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Lead	18		0.29	0.15	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Magnesium	19000	B ^	5.9	2.4	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Manganese	600	B	0.59	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Nickel	11		0.59	0.16	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Potassium	810		29	4.8	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Selenium	0.50	J	0.59	0.29	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Sodium	1300		59	7.8	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Vanadium	20		0.29	0.086	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1
Zinc	41		1.2	0.37	mg/Kg	☼	03/17/16 09:48	03/22/16 10:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/23/16 09:00	03/23/16 15:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		20	11	ug/Kg	☼	03/19/16 15:30	03/21/16 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			03/15/16 15:46	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108666-1

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
*	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.
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
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

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

Certification Summary

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

TestAmerica Job ID: 500-108666-1

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
Phone: 708.534.5200 Fax: 708.5



500-108666 COC

Report To (optional)
Contact: S. Babushkumar
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108666
Chain of Custody Number: _____
Page 3 of 4
Temperature °C of Cooler: 2.8

Client		Client Project #		Preservative		Parameter		Total Metals		Trace 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	NOCs	SNOCs	Total Metals	Trace Metals	PH	Comments				
<u>IDOT-040</u>															
Project Location/State		Lab PM													
<u>Richardson * Gustar 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	Trace Metals	PH				
1		AL101-4(0-1)-031016	3-10-16	1140	2	S	X	X	X	X	X				
2		AL101-4(0-1)-031016D		1140											
3		AL101-5(0-1)-031016		1245											
4		AL101-6(0-1)-031016		1255											
5		WL102-1(0-1)-031016		1310											
6		WL102-2(0-1)-031016		1320											
7		WL102-3(0-1)-031016		1340											
8		AB103-1(0-1)-031016		1355											
9		AL104-1(0-1)-031016		1410											
10		AL104-2(0-1)-031016	3-10-16	1420	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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CERT</u>	Date <u>3/10/16</u>	Time <u>1655</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TR

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):
17900-18200 Blocks of W. IL 113, (ISGS Site No. 2948-104)

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: 41.214620058 Longitude: -88.038081042
(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: 41.214620058 Longitude: -88.038081042

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 AL104-3, AND AL104-7 THROUGH AL104-9 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-104. SEE FIGURE 3-18 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: 500-108666-1 AND 500-108728-1. ALSO SEE FIGURES 4-18 AND 4-19 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. 2948-104
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	AL104-3(0-1)-031016	AL104-3(0-1)-031016D	AL104-7(0-1)-031116	AL104-8(0-1)-031116	AL104-9(0-1)-031116	Soil Reference Concentrations
Sample Date	3/10/2016	3/10/2016	3/11/2016	3/11/2016	3/11/2016	
Location ID	AL104-3	AL104-3	AL104-7	AL104-8	AL104-9	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
Location Code	2948-104	2948-104	2948-104	2948-104	2948-104	
Parameter						
Laboratory pH	7.89	7.8	7.78	8.03	7.62	<6.25,>9.0
VOCs (ug/kg)	None Detected					
SVOCs (ug/kg)						
Benzo(a)pyrene	240 J	250 J	66 J	ND	ND	90 / 1300 / 2100
Total Metals (mg/kg)						
Arsenic, Total	6.7	6	7.8 J	6.1 J	6.1 J	11.3 / 13
Barium, Total	110 J	97 J	97	110	89	1500
Beryllium, Total	0.63	0.61	0.55	0.49	0.46	22
Cadmium, Total	ND	ND	ND	0.051 J	0.062 J	5.2
Calcium, Total	5100 J	4200 J	6600 J	4600 J	4700 J	---
Chromium, Total	13 J	14 J	11	9.7	9.2	21
Iron, Total	16000 J	15000 J	23000 J	13000 J	12000 J	15000 / 15900
Lead, Total	16 J	15 J	14 J+	16 J+	13 J+	107
Manganese, Total	410 J	310 J	850 J-	670 J-	580 J-	630 / 636
Mercury, Total	0.054	0.047	0.033	0.028	0.026	0.89
Nickel, Total	14	22	16 J	14 J	13 J	100
Potassium, Total	750 J+	780 J+	510	520	510	---
Selenium, Total	0.32 J	0.35 J	1.2	1.2	1.2	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Zinc, Total	49 J	50 J	43	43	40	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.5	0.51	0.47 J	0.4 J	0.41 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	ND	0.21 J	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.52 J	1.5 J	0.14	0.06	0.23	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	0.37 J	0.96	2.6	0.15 J	0.99	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.02 J	0.022 J	0.026 J	0.038 J	0.02 J	0.05
Barium, SPLP	0.91	0.9	0.77	0.99	0.58	2
Beryllium, SPLP	0.006	0.006	0.0041	0.0052	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.16	0.16	0.12	0.14	0.099	0.1
Iron, SPLP	150 J+	140 J+	140 J-	150 J-	100 J-	5
Lead, SPLP	0.073	0.097	0.1	0.091	0.083	0.0075
Manganese, SPLP	0.85	0.85	2.2	2.3	0.9	0.15
Mercury, SPLP	ND	ND	ND	ND	0.0002	0.002
Nickel, SPLP	0.11	0.11	0.11	0.13	0.078	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.69 B	1.6 B	0.41 J	0.5	0.39 J	5

Summary Table of ISGS Site No. 2948-104
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.

^A - 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: 500-108666-1
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:
3/25/2016 1:42:31 PM

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

LINKS

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results through
TotalAccess

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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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- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016

Lab Sample ID: 500-108666-11

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/15/16 13:53	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 13:53	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/15/16 13:53	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/15/16 13:53	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/15/16 13:53	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/15/16 13:53	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/15/16 13:53	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 13:53	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/15/16 13:53	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/15/16 13:53	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/15/16 13:53	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/15/16 13:53	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 13:53	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/15/16 13:53	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/15/16 13:53	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/15/16 13:53	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 13:53	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/15/16 13:53	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/15/16 13:53	1
Toluene	<6.2		6.2	2.1	ug/Kg	☼		03/15/16 13:53	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 13:53	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/15/16 13:53	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/15/16 13:53	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/15/16 13:53	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/15/16 13:53	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/15/16 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		03/15/16 13:53	1
Dibromofluoromethane	110		75 - 120		03/15/16 13:53	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/15/16 13:53	1
Toluene-d8 (Surr)	104		75 - 122		03/15/16 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016

Lab Sample ID: 500-108666-11

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,4-Dinitrophenol	<820		820	710	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Methylnaphthalene	11	J	40	7.4	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
3,3'-Dichlorobenzidine	<200	*	200	57	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
4-Nitrophenol	<820		820	380	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Acenaphthylene	32	J	40	5.3	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Anthracene	24	J	40	6.8	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Benzo[a]anthracene	160	*	40	5.4	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Benzo[a]pyrene	240	*	40	7.8	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Benzo[b]fluoranthene	390	*	40	8.7	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Benzo[g,h,i]perylene	150	*	40	13	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Benzo[k]fluoranthene	150	*	40	12	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Bis(2-ethylhexyl) phthalate	<200	*	200	74	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Butyl benzyl phthalate	<200	*	200	77	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Carbazole	<200		200	100	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Chrysene	190	*	40	11	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Dibenz(a,h)anthracene	38	J *	40	7.8	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Fluoranthene	230		40	7.5	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Fluorene	7.3	J	40	5.7	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016

Lab Sample ID: 500-108666-11

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.1

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	140	*	40	10	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Isophorone	<200		200	45	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
N-Nitrosodi-n-propylamine	<82		82	49	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Phenanthrene	74		40	5.6	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Phenol	<200		200	90	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Pyrene	560	*	40	8.0	ug/Kg	☼	03/16/16 10:04	03/23/16 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				03/16/16 10:04	03/23/16 16:45	1
2-Fluorobiphenyl	67		25 - 119				03/16/16 10:04	03/23/16 16:45	1
2-Fluorophenol	64		25 - 110				03/16/16 10:04	03/23/16 16:45	1
Nitrobenzene-d5	61		25 - 115				03/16/16 10:04	03/23/16 16:45	1
Phenol-d5	66		31 - 110				03/16/16 10:04	03/23/16 16:45	1
Terphenyl-d14	175	X *	36 - 134				03/16/16 10:04	03/23/16 16:45	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		03/21/16 11:00	03/22/16 21:12	1
Barium	0.50		0.50	0.050	mg/L		03/21/16 11:00	03/22/16 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:48	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:12	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 21:12	1
Manganese	0.52		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 21:12	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:12	1
Zinc	0.37	J	0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 03:22	1
Barium	0.91		0.50	0.050	mg/L		03/22/16 08:11	03/23/16 03:22	1
Beryllium	0.0060		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 03:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 03:22	1
Chromium	0.16		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:22	1
Cobalt	0.024	J	0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:33	1
Copper	0.10		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:22	1
Iron	150		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 19:33	1
Lead	0.073		0.038	0.038	mg/L		03/22/16 08:11	03/23/16 19:38	5
Manganese	0.85		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:22	1
Nickel	0.11		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 03:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016

Lab Sample ID: 500-108666-11

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 81.1

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		03/22/16 08:11	03/23/16 03:22	1
Zinc	0.69	B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 19:33	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	☼	03/17/16 09:48	03/22/16 10:17	1
Arsenic	6.7		0.60	0.28	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Barium	110		0.60	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Beryllium	0.63		0.24	0.052	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Calcium	5100	B	12	3.9	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Chromium	13		0.60	0.10	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Cobalt	7.7		0.30	0.068	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Copper	12		0.60	0.13	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Iron	16000	B	12	4.6	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Lead	16		0.30	0.15	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Magnesium	3700	B ^	6.0	2.4	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Manganese	410	B	0.60	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Nickel	14		0.60	0.16	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Potassium	750		30	4.9	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Selenium	0.32	J	0.60	0.30	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Sodium	1300		60	7.9	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Vanadium	29		0.30	0.088	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	1
Zinc	49		1.2	0.38	mg/Kg	☼	03/17/16 09:48	03/22/16 10:17	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		03/21/16 18:30	03/22/16 13:25	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		03/23/16 09:00	03/23/16 15:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	54		19	10	ug/Kg	☼	03/19/16 15:30	03/21/16 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			03/15/16 16:00	1

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016D

Lab Sample ID: 500-108666-12

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 78.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.9	ug/Kg	☼		03/15/16 14:19	1
Benzene	<6.4		6.4	1.4	ug/Kg	☼		03/15/16 14:19	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		03/15/16 14:19	1
Bromoform	<6.4		6.4	1.3	ug/Kg	☼		03/15/16 14:19	1
Bromomethane	<6.4		6.4	2.3	ug/Kg	☼		03/15/16 14:19	1
Carbon disulfide	<6.4		6.4	2.3	ug/Kg	☼		03/15/16 14:19	1
Carbon tetrachloride	<6.4		6.4	1.4	ug/Kg	☼		03/15/16 14:19	1
Chlorobenzene	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
Chloroethane	<6.4		6.4	2.7	ug/Kg	☼		03/15/16 14:19	1
Chloroform	<6.4		6.4	1.2	ug/Kg	☼		03/15/16 14:19	1
Chloromethane	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
cis-1,2-Dichloroethene	<6.4		6.4	1.3	ug/Kg	☼		03/15/16 14:19	1
cis-1,3-Dichloropropene	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
Dibromochloromethane	<6.4		6.4	0.73	ug/Kg	☼		03/15/16 14:19	1
1,1-Dichloroethane	<6.4		6.4	1.3	ug/Kg	☼		03/15/16 14:19	1
1,2-Dichloroethane	<6.4		6.4	0.94	ug/Kg	☼		03/15/16 14:19	1
1,1-Dichloroethene	<6.4		6.4	2.3	ug/Kg	☼		03/15/16 14:19	1
1,2-Dichloropropane	<6.4		6.4	1.7	ug/Kg	☼		03/15/16 14:19	1
1,3-Dichloropropene, Total	<6.4		6.4	1.8	ug/Kg	☼		03/15/16 14:19	1
Ethylbenzene	<6.4		6.4	1.6	ug/Kg	☼		03/15/16 14:19	1
2-Hexanone	<6.4		6.4	2.0	ug/Kg	☼		03/15/16 14:19	1
Methylene Chloride	<6.4		6.4	4.8	ug/Kg	☼		03/15/16 14:19	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		03/15/16 14:19	1
methyl isobutyl ketone	<6.4		6.4	1.3	ug/Kg	☼		03/15/16 14:19	1
Methyl tert-butyl ether	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
Styrene	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.0	ug/Kg	☼		03/15/16 14:19	1
Tetrachloroethene	<6.4		6.4	1.3	ug/Kg	☼		03/15/16 14:19	1
Toluene	<6.4		6.4	2.2	ug/Kg	☼		03/15/16 14:19	1
trans-1,2-Dichloroethene	<6.4		6.4	1.6	ug/Kg	☼		03/15/16 14:19	1
trans-1,3-Dichloropropene	<6.4		6.4	1.8	ug/Kg	☼		03/15/16 14:19	1
1,1,1-Trichloroethane	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
1,1,2-Trichloroethane	<6.4		6.4	1.2	ug/Kg	☼		03/15/16 14:19	1
Trichloroethene	<6.4		6.4	1.7	ug/Kg	☼		03/15/16 14:19	1
Vinyl chloride	<6.4		6.4	1.5	ug/Kg	☼		03/15/16 14:19	1
Xylenes, Total	<13		13	2.4	ug/Kg	☼		03/15/16 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		03/15/16 14:19	1
Dibromofluoromethane	111		75 - 120		03/15/16 14:19	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		03/15/16 14:19	1
Toluene-d8 (Surr)	106		75 - 122		03/15/16 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016D

Lab Sample ID: 500-108666-12

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	94	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,4-Dinitrophenol	<830		830	720	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Methylnaphthalene	<41		41	7.6	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Methylphenol	<210		210	66	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
3,3'-Dichlorobenzidine	<210 *		210	58	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4,6-Dinitro-2-methylphenol	<830		830	330	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Acenaphthylene	31 J		41	5.4	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Anthracene	33 J		41	6.9	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Benzo[a]anthracene	180 *		41	5.5	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Benzo[a]pyrene	250 *		41	8.0	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Benzo[b]fluoranthene	330 *		41	8.9	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Benzo[g,h,i]perylene	160 *		41	13	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Benzo[k]fluoranthene	180 *		41	12	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Bis(2-ethylhexyl) phthalate	110 J *		210	75	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Butyl benzyl phthalate	<210 *		210	78	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Carbazole	<210		210	100	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Chrysene	230 *		41	11	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Dibenz(a,h)anthracene	43 *		41	7.9	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Dibenzofuran	<210		210	48	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Fluoranthene	350		41	7.6	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Fluorene	7.8 J		41	5.8	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Hexachlorobenzene	<83		83	9.5	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Hexachloroethane	<210		210	63	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016D

Lab Sample ID: 500-108666-12

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 78.5

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	140	*	41	11	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Isophorone	<210		210	46	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Naphthalene	<41		41	6.3	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
N-Nitrosodi-n-propylamine	<83		83	50	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Phenanthrene	130		41	5.7	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Phenol	<210		210	91	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Pyrene	740	*	41	8.2	ug/Kg	☼	03/16/16 10:04	03/23/16 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/16/16 10:04	03/23/16 17:13	1
2-Fluorobiphenyl	70		25 - 119				03/16/16 10:04	03/23/16 17:13	1
2-Fluorophenol	71		25 - 110				03/16/16 10:04	03/23/16 17:13	1
Nitrobenzene-d5	66		25 - 115				03/16/16 10:04	03/23/16 17:13	1
Phenol-d5	76		31 - 110				03/16/16 10:04	03/23/16 17:13	1
Terphenyl-d14	183	X *	36 - 134				03/16/16 10:04	03/23/16 17:13	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		03/21/16 11:00	03/22/16 21:17	1
Barium	0.51		0.50	0.050	mg/L		03/21/16 11:00	03/22/16 21:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 11:00	03/23/16 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 11:00	03/22/16 21:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:53	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:17	1
Iron	0.21	J	0.40	0.20	mg/L		03/21/16 11:00	03/23/16 21:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 11:00	03/22/16 21:17	1
Manganese	1.5		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/23/16 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 11:00	03/22/16 21:17	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 11:00	03/22/16 21:17	1
Zinc	0.96		0.50	0.020	mg/L		03/21/16 11:00	03/23/16 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		03/22/16 08:11	03/23/16 03:27	1
Barium	0.90		0.50	0.050	mg/L		03/22/16 08:11	03/23/16 03:27	1
Beryllium	0.0060		0.0040	0.0040	mg/L		03/22/16 08:11	03/23/16 03:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:11	03/23/16 03:27	1
Chromium	0.16		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:27	1
Cobalt	0.023	J	0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:42	1
Copper	0.099		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:27	1
Iron	140		0.40	0.20	mg/L		03/22/16 08:11	03/23/16 19:42	1
Lead	0.097		0.0075	0.0075	mg/L		03/22/16 08:11	03/23/16 03:27	1
Manganese	0.85		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 03:27	1
Nickel	0.11		0.025	0.010	mg/L		03/22/16 08:11	03/23/16 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:11	03/23/16 03:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108666-1

Client Sample ID: AL104-3(0-1)-031016D

Lab Sample ID: 500-108666-12

Date Collected: 03/10/16 14:40

Matrix: Solid

Date Received: 03/10/16 16:55

Percent Solids: 78.5

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		03/22/16 08:11	03/23/16 03:27	1
Zinc	1.6	B	0.50	0.020	mg/L		03/22/16 08:11	03/23/16 19:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Arsenic	6.0		0.63	0.29	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Barium	97		0.63	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Beryllium	0.61		0.25	0.054	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Cadmium	<0.13		0.13	0.036	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Calcium	4200	B	13	4.0	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Chromium	14		0.63	0.11	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Cobalt	9.7		0.31	0.071	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Copper	13		0.63	0.14	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Iron	15000	B	13	4.8	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Lead	15		0.31	0.16	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Magnesium	3200	B ^	6.3	2.5	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Manganese	310	B	0.63	0.12	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Nickel	22		0.63	0.17	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Potassium	780		31	5.1	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Selenium	0.35	J	0.63	0.31	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Sodium	1400		63	8.3	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Vanadium	27		0.31	0.091	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1
Zinc	50		1.3	0.40	mg/Kg	☼	03/17/16 09:48	03/22/16 10:22	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 13:27	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 09:00	03/23/16 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47		21	11	ug/Kg	☼	03/19/16 15:30	03/21/16 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			03/15/16 16:05	1

Definitions/Glossary

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

TestAmerica Job ID: 500-108666-1

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
*	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.
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
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☐	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: 500-108666-1

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
Phone: 708.534.5200 Fax: 708.5



500-108666 COC

Report To (optional)
Contact: S. Babushkumar
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108666
Chain of Custody Number: _____
Page 3 of 4
Temperature °C of Cooler: 2.8

Client		Client Project #		Preservative		Parameter		Total Metals		TEUP/SPUD 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	NOCs	SNOCs	Total Metals	TEUP/SPUD Metals	PH	Comments				
<u>IDOT-040</u>		<u>Richardson * Gustar Park / IL</u>													
Project Location/State		Lab PM													
<u>Richardson * Gustar Park / IL</u>		<u>D. Wright</u>													
Sampler		Sampling													
<u>T. Walls</u>		Date Time													
1		AL101-4(0-1)-031016	3-10-16 1140	2	S	X	X	X	X	X					
2		AL101-4(0-1)-031016D	1140												
3		AL101-5(0-1)-031016	1245												
4		AL101-6(0-1)-031016	1255												
5		WL102-1(0-1)-031016	1310												
6		WL102-2(0-1)-031016	1320												
7		WL102-3(0-1)-031016	1340												
8		AB103-1(0-1)-031016	1355												
9		AL104-1(0-1)-031016	1410												
10		AL104-2(0-1)-031016	3-10-16 1420	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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>3/10/16</u>	Time <u>1655</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TR

Shipped: _____

Hand Delivered: _____

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

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Babusukumar
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-108666
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		Project Location/State		Lab Project #		Sampler		Lab PM										Comments	
<u>IDOT-040</u>		<u>Broadwood & Wacker Park IL</u>				<u>T. Walls</u>		<u>D. Wright</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCAP/SPUP Metals	PH								
			Date	Time															
<u>11</u>		<u>AL104-3(0-1)-031016</u>	<u>3-10-16</u>	<u>1440</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>AL104-3(0-1)-031016D</u>	<u>↓</u>	<u>1440</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>								
<u>13</u>		<u>AL104-4(0-1)-031016</u>	<u>↓</u>	<u>1455</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>								
<u>14</u>		<u>AL104-5(0-1)-031016</u>	<u>3-10-16</u>	<u>1510</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>7-9 Walls 3-10-16</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>3-10-16</u>	Time <u>1520</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1520</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/10/16</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CAF</u>	Date <u>3/10/16</u>	Time <u>1655</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: 500-108728-1

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

Jodie Bracken

Authorized for release by:

3/29/2016 11:36:30 AM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



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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: 500-108728-1

Client Sample ID: AL104-7(0-1)-031116

Lab Sample ID: 500-108728-2

Date Collected: 03/11/16 07:55

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 81.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/15/16 00:56	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/15/16 00:56	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:56	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:56	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:56	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:56	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/15/16 00:56	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:56	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:56	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:56	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/15/16 00:56	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:56	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/15/16 00:56	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:56	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 00:56	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 00:56	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:56	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/15/16 00:56	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/15/16 00:56	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 00:56	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:56	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/15/16 00:56	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 00:56	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/15/16 00:56	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:56	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 00:56	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 00:56	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 00:56	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 00:56	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 00:56	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/15/16 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/15/16 00:56	1
Dibromofluoromethane	110		75 - 120		03/15/16 00:56	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/15/16 00:56	1
Toluene-d8 (Surr)	116		75 - 122		03/15/16 00:56	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	☼	03/16/16 16:20	03/23/16 16:31	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-7(0-1)-031116

Lab Sample ID: 500-108728-2

Date Collected: 03/11/16 07:55

Matrix: Solid

Date Received: 03/11/16 16:20

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	<400		400	92	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Acenaphthylene	14	J	40	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Benzo[a]anthracene	48		40	5.4	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Benzo[a]pyrene	66	*	40	7.8	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Benzo[b]fluoranthene	110	*	40	8.7	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Benzo[g,h,i]perylene	<40	*	40	13	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Benzo[k]fluoranthene	33	J *	40	12	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Carbazole	<200		200	100	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Chrysene	53		40	11	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Fluoranthene	68		40	7.5	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-7(0-1)-031116

Lab Sample ID: 500-108728-2

Date Collected: 03/11/16 07:55

Matrix: Solid

Date Received: 03/11/16 16:20

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	32	J*	40	10	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Isophorone	<200		200	45	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Phenanthrene	13	J	40	5.6	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Phenol	<200		200	90	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Pyrene	100		40	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	20	X	35 - 137				03/16/16 16:20	03/23/16 16:31	1
2-Fluorobiphenyl	61		25 - 119				03/16/16 16:20	03/23/16 16:31	1
2-Fluorophenol	65		25 - 110				03/16/16 16:20	03/23/16 16:31	1
Nitrobenzene-d5	61		25 - 115				03/16/16 16:20	03/23/16 16:31	1
Phenol-d5	70		31 - 110				03/16/16 16:20	03/23/16 16:31	1
Terphenyl-d14	109		36 - 134				03/16/16 16:20	03/23/16 16:31	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 08:06	03/24/16 03:30	1
Barium	0.47	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 03:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 03:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 03:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:30	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:30	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 03:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 03:30	1
Manganese	0.14		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 12:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 03:30	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:30	1
Zinc	2.6		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 03:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Barium	0.77		0.50	0.050	mg/L		03/22/16 16:36	03/24/16 16:45	1
Beryllium	0.0041		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 16:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 16:45	1
Chromium	0.12		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Cobalt	0.029		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Copper	0.084		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Iron	140		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 16:45	1
Lead	0.10		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 16:45	1
Manganese	2.2		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Nickel	0.11		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 16:45	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-7(0-1)-031116

Lab Sample ID: 500-108728-2

Date Collected: 03/11/16 07:55

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/22/16 16:36	03/24/16 16:45	1
Zinc	0.41	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 16:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Arsenic	7.8		0.60	0.28	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Barium	97		0.60	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Beryllium	0.55		0.24	0.052	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Calcium	6600	B	12	3.9	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Chromium	11		0.60	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Cobalt	9.2		0.30	0.068	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Copper	12		0.60	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Iron	23000	B	12	4.6	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Lead	14		0.30	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Magnesium	4800	B	6.0	2.4	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Manganese	850	B	0.60	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Nickel	16		0.60	0.16	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Potassium	510		30	4.9	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Selenium	1.2		0.56	0.28	mg/Kg	☼	03/24/16 16:10	03/25/16 11:28	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/24/16 16:10	03/25/16 11:28	1
Sodium	750		60	7.9	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Thallium	0.40	J	0.60	0.30	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Vanadium	24		0.30	0.088	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	1
Zinc	43		1.2	0.38	mg/Kg	☼	03/17/16 13:03	03/24/16 04:43	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		03/21/16 18:30	03/22/16 14:59	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 09:00	03/23/16 15:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		20	11	ug/Kg	☼	03/21/16 15:30	03/22/16 21:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78		0.200	0.200	SU			03/16/16 12:38	1

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-8(0-1)-031116

Lab Sample ID: 500-108728-3

Date Collected: 03/11/16 08:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 79.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.9	ug/Kg	☼		03/15/16 01:21	1
Benzene	<6.3		6.3	1.4	ug/Kg	☼		03/15/16 01:21	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/15/16 01:21	1
Bromoform	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
Bromomethane	<6.3		6.3	2.3	ug/Kg	☼		03/15/16 01:21	1
Carbon disulfide	<6.3		6.3	2.3	ug/Kg	☼		03/15/16 01:21	1
Carbon tetrachloride	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
Chlorobenzene	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
Chloroethane	<6.3		6.3	2.6	ug/Kg	☼		03/15/16 01:21	1
Chloroform	<6.3		6.3	1.2	ug/Kg	☼		03/15/16 01:21	1
Chloromethane	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
cis-1,2-Dichloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
cis-1,3-Dichloropropene	<6.3		6.3	1.4	ug/Kg	☼		03/15/16 01:21	1
Dibromochloromethane	<6.3		6.3	0.72	ug/Kg	☼		03/15/16 01:21	1
1,1-Dichloroethane	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		03/15/16 01:21	1
1,1-Dichloroethene	<6.3		6.3	2.3	ug/Kg	☼		03/15/16 01:21	1
1,2-Dichloropropane	<6.3		6.3	1.6	ug/Kg	☼		03/15/16 01:21	1
1,3-Dichloropropene, Total	<6.3		6.3	1.8	ug/Kg	☼		03/15/16 01:21	1
Ethylbenzene	<6.3		6.3	1.6	ug/Kg	☼		03/15/16 01:21	1
2-Hexanone	<6.3		6.3	2.0	ug/Kg	☼		03/15/16 01:21	1
Methylene Chloride	<6.3		6.3	4.8	ug/Kg	☼		03/15/16 01:21	1
Methyl Ethyl Ketone	<6.3		6.3	2.2	ug/Kg	☼		03/15/16 01:21	1
methyl isobutyl ketone	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
Methyl tert-butyl ether	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
Styrene	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.0	ug/Kg	☼		03/15/16 01:21	1
Tetrachloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/15/16 01:21	1
Toluene	<6.3		6.3	2.2	ug/Kg	☼		03/15/16 01:21	1
trans-1,2-Dichloroethene	<6.3		6.3	1.6	ug/Kg	☼		03/15/16 01:21	1
trans-1,3-Dichloropropene	<6.3		6.3	1.8	ug/Kg	☼		03/15/16 01:21	1
1,1,1-Trichloroethane	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
1,1,2-Trichloroethane	<6.3		6.3	1.2	ug/Kg	☼		03/15/16 01:21	1
Trichloroethene	<6.3		6.3	1.7	ug/Kg	☼		03/15/16 01:21	1
Vinyl chloride	<6.3		6.3	1.5	ug/Kg	☼		03/15/16 01:21	1
Xylenes, Total	<13		13	2.3	ug/Kg	☼		03/15/16 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		03/15/16 01:21	1
Dibromofluoromethane	107		75 - 120		03/15/16 01:21	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/15/16 01:21	1
Toluene-d8 (Surr)	119		75 - 122		03/15/16 01:21	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	☼	03/16/16 16:20	03/23/16 13:30	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-8(0-1)-031116

Lab Sample ID: 500-108728-3

Date Collected: 03/11/16 08:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	94	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,4-Dinitrophenol	<830	*	830	730	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Chlorophenol	<210		210	71	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Methylnaphthalene	<41		41	7.6	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Methylphenol	<210		210	66	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
2-Nitrophenol	<410		410	98	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4,6-Dinitro-2-methylphenol	<830		830	330	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Anthracene	<41		41	6.9	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Benzo[a]anthracene	<41		41	5.6	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Benzo[a]pyrene	<41	*	41	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Benzo[b]fluoranthene	<41	*	41	8.9	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Benzo[g,h,i]perylene	<41	*	41	13	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Benzo[k]fluoranthene	<41	*	41	12	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Butyl benzyl phthalate	<210		210	79	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Carbazole	<210		210	100	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Chrysene	<41		41	11	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Dibenz(a,h)anthracene	<41	*	41	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Dibenzofuran	<210		210	48	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Fluoranthene	<41		41	7.7	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Fluorene	<41		41	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Hexachlorobenzene	<83		83	9.6	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Hexachloroethane	<210		210	63	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-8(0-1)-031116

Lab Sample ID: 500-108728-3

Date Collected: 03/11/16 08:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 79.5

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	<41	*	41	11	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Isophorone	<210		210	46	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Naphthalene	<41		41	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
N-Nitrosodi-n-propylamine	<83		83	50	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Phenanthrene	<41		41	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Phenol	<210		210	92	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1
Pyrene	<41		41	8.2	ug/Kg	☼	03/16/16 16:20	03/23/16 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		35 - 137	03/16/16 16:20	03/23/16 13:30	1
2-Fluorobiphenyl	81		25 - 119	03/16/16 16:20	03/23/16 13:30	1
2-Fluorophenol	93		25 - 110	03/16/16 16:20	03/23/16 13:30	1
Nitrobenzene-d5	84		25 - 115	03/16/16 16:20	03/23/16 13:30	1
Phenol-d5	93		31 - 110	03/16/16 16:20	03/23/16 13:30	1
Terphenyl-d14	128		36 - 134	03/16/16 16:20	03/23/16 13:30	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 08:06	03/24/16 03:36	1
Barium	0.40	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 03:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 03:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 03:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:36	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:36	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 03:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 03:36	1
Manganese	0.060		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 12:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 03:36	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:36	1
Zinc	0.15	J	0.50	0.020	mg/L		03/22/16 08:06	03/24/16 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.038	J	0.050	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Barium	0.99		0.50	0.050	mg/L		03/22/16 16:36	03/24/16 16:50	1
Beryllium	0.0052		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 16:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 16:50	1
Chromium	0.14		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Cobalt	0.032		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Copper	0.089		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Iron	150		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 16:50	1
Lead	0.091		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 16:50	1
Manganese	2.3		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Nickel	0.13		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 16:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-8(0-1)-031116

Lab Sample ID: 500-108728-3

Date Collected: 03/11/16 08:05

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 79.5

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		03/22/16 16:36	03/24/16 16:50	1
Zinc	0.50		0.50	0.020	mg/L		03/22/16 16:36	03/24/16 16:50	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Arsenic	6.1		0.62	0.29	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Barium	110		0.62	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Beryllium	0.49		0.25	0.054	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Cadmium	0.051	J	0.12	0.036	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Calcium	4600	B	12	4.0	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Chromium	9.7		0.62	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Cobalt	8.2		0.31	0.070	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Copper	9.4		0.62	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Iron	13000	B	12	4.8	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Lead	16		0.31	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Magnesium	3100	B	6.2	2.5	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Manganese	670	B	0.62	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Nickel	14		0.62	0.17	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Potassium	520		31	5.0	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Selenium	1.2		0.59	0.29	mg/Kg	☼	03/24/16 16:10	03/25/16 11:33	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/24/16 16:10	03/25/16 11:33	1
Sodium	870		62	8.2	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Thallium	<0.62		0.62	0.30	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Vanadium	21		0.31	0.090	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	1
Zinc	43		1.2	0.39	mg/Kg	☼	03/17/16 13:03	03/24/16 04:55	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		03/21/16 18:30	03/22/16 15:05	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		03/23/16 09:00	03/24/16 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		20	10	ug/Kg	☼	03/21/16 15:30	03/22/16 21:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU			03/16/16 12:41	1

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-9(0-1)-031116

Lab Sample ID: 500-108728-4

Date Collected: 03/11/16 08:10

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 81.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/16/16 13:41	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 13:41	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/16/16 13:41	1
Bromoform	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
Bromomethane	<6.1	F1	6.1	2.3	ug/Kg	☼		03/16/16 13:41	1
Carbon disulfide	<6.1		6.1	2.3	ug/Kg	☼		03/16/16 13:41	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
Chlorobenzene	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/16/16 13:41	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 13:41	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
cis-1,2-Dichloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 13:41	1
Dibromochloromethane	<6.1		6.1	0.71	ug/Kg	☼		03/16/16 13:41	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/16/16 13:41	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/16/16 13:41	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/16/16 13:41	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/16/16 13:41	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/16/16 13:41	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/16/16 13:41	1
Methyl Ethyl Ketone	<6.1	F2	6.1	2.2	ug/Kg	☼		03/16/16 13:41	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
Methyl tert-butyl ether	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 13:41	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.98	ug/Kg	☼		03/16/16 13:41	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/16/16 13:41	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/16/16 13:41	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/16/16 13:41	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/16/16 13:41	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/16/16 13:41	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		03/16/16 13:41	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/16/16 13:41	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/16/16 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/16/16 13:41	1
Dibromofluoromethane	109		75 - 120		03/16/16 13:41	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/16/16 13:41	1
Toluene-d8 (Surr)	118		75 - 122		03/16/16 13:41	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	43	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-9(0-1)-031116

Lab Sample ID: 500-108728-4

Date Collected: 03/11/16 08:10

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Anthracene	<39		39	6.6	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Benzo[a]anthracene	9.2	J *	39	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Benzo[a]pyrene	<39	*	39	7.7	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Benzo[b]fluoranthene	<39	*	39	8.6	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Benzo[k]fluoranthene	<39	*	39	12	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Bis(2-ethylhexyl) phthalate	<200	*	200	72	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Butyl benzyl phthalate	<200	*	200	75	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Carbazole	<200		200	99	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Chrysene	14	J *	39	11	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Dibenz(a,h)anthracene	<39	*	39	7.7	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Fluoranthene	16	J	39	7.3	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Fluorene	<39		39	5.6	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-9(0-1)-031116

Lab Sample ID: 500-108728-4

Date Collected: 03/11/16 08:10

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39	*	39	10	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Isophorone	<200		200	44	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Phenanthrene	84		39	5.5	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Phenol	<200		200	88	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1
Pyrene	36	J *	39	7.9	ug/Kg	☼	03/16/16 16:20	03/23/16 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137	03/16/16 16:20	03/23/16 17:29	1
2-Fluorobiphenyl	87		25 - 119	03/16/16 16:20	03/23/16 17:29	1
2-Fluorophenol	89		25 - 110	03/16/16 16:20	03/23/16 17:29	1
Nitrobenzene-d5	84		25 - 115	03/16/16 16:20	03/23/16 17:29	1
Phenol-d5	90		31 - 110	03/16/16 16:20	03/23/16 17:29	1
Terphenyl-d14	173	X *	36 - 134	03/16/16 16:20	03/23/16 17:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Barium	0.41	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 03:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 03:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 03:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 03:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 03:41	1
Manganese	0.23		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 12:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 03:41	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:41	1
Zinc	0.99		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 03:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Barium	0.58		0.50	0.050	mg/L		03/22/16 16:36	03/24/16 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 16:55	1
Chromium	0.099		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Cobalt	0.018	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Copper	0.056		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Iron	100		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 16:55	1
Lead	0.083		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 16:55	1
Manganese	0.90		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Nickel	0.078		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL104-9(0-1)-031116

Lab Sample ID: 500-108728-4

Date Collected: 03/11/16 08:10

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 81.4

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		03/22/16 16:36	03/24/16 16:55	1
Zinc	0.39	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 16:55	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	☼	03/17/16 13:03	03/24/16 05:00	1
Arsenic	6.1		0.60	0.28	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Barium	89		0.60	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Beryllium	0.46		0.24	0.052	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Cadmium	0.062	J	0.12	0.035	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Calcium	4700	B	12	3.9	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Chromium	9.2		0.60	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Cobalt	7.5		0.30	0.068	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Copper	8.1		0.60	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Iron	12000	B	12	4.7	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Lead	13		0.30	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Magnesium	3100	B	6.0	2.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Manganese	580	B	0.60	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Nickel	13		0.60	0.16	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Potassium	510		30	4.9	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Selenium	1.2		0.61	0.30	mg/Kg	☼	03/24/16 16:10	03/25/16 11:37	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	03/24/16 16:10	03/25/16 11:37	1
Sodium	1100		60	8.0	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Vanadium	19		0.30	0.088	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	1
Zinc	40		1.2	0.38	mg/Kg	☼	03/17/16 13:03	03/24/16 05:00	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		03/21/16 18:30	03/22/16 15:07	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		03/23/16 09:00	03/23/16 15:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		18	9.3	ug/Kg	☼	03/21/16 15:30	03/22/16 21:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			03/16/16 12:43	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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)	Bill To (optional)
Contact: <u>S. Babrauskumar</u>	Contact: _____
Company: <u>Weston Solutions</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: <u>SAMP</u>
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference#: _____

Chain of Custody Record

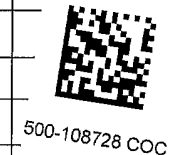
Lab Job #: 500-108728

Chain of Custody Number: _____

Page 1 of 4

Temperature °C of Cooler: 3.5

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix	
<u>Weston</u>																							
Project Name		Lab Project #		Sampling		Total Metals		Trace Metals		pH													
<u>IDOT-040</u>						<u>VOCs</u>		<u>SVOCs</u>		<u>TCP/SP/PAH Metals</u>		<u>pH</u>											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix													
<u>Braidwood & Custer Park / IL</u>		<u>D. Wright</u>																					
Sampler		Sample ID		Date		Time		# of Containers		Matrix													
<u>T. Walls</u>																							
1	MS/MSD	AL104-6(0-1)-031116	3-11-16	0750	2	S	X	X	X	X	X												
2		AL104-7(0-1)-031116		0755																			
3		AL104-8(0-1)-031116		0805																			
4		AL104-9(0-1)-031116		0810																			
5		R105-1(0-1)-031116		0820																			
6		R105-2(0-1)-031116		0825																			
7		R105-3(0-1)-031116		0835																			
8		F106-1(0-1)-031116		0910																			
9		AB107-1(0-1)-031116		0920																			
10		AB107-1(0-1)-031116D	3-11-16	0920	2	S	X	X	X	X	X												



- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other _____

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>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1515</u>	Lab Courier <u>TA-CMI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1620</u>	Received By <u>[Signature]</u>	Company <u>TA-CMI</u>	Date <u>03/11/16</u>	Time <u>1620</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Hand Delivered _____

Matrix Key	Client Comments	Lab Comments:
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		



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):
17717-17745 W. IL 113, (ISGS Site No. 2948-105)

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: 41.210672569 Longitude: -88.035122342
(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: 41.210672569 Longitude: -88.035122342

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 R105-1 THROUGH R105-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2948-105. SEE FIGURE 3-19 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: 500-108728-1.
ALSO SEE FIGURE 4-19 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. 2948-105
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	R105-1(0-1)-031116	R105-2(0-1)-031116	R105-3(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	3/11/2016	
Location ID	R105-1	R105-2	R105-3	
Depth	0 - 1	0 - 1	0 - 1	
Location Code	2948-105	2948-105	2948-105	
Parameter				
Laboratory pH	8.3	8.72	8.68	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)pyrene	20 J	67 J	110 J	90 / 1300 / 2100
Total Metals (mg/kg)				
Arsenic, Total	5.1 J	1.5 J	1.6 J	11.3 / 13
Barium, Total	61	16	12	1500
Beryllium, Total	0.45	0.1 J	0.12 J	22
Cadmium, Total	ND	ND	0.068 J	5.2
Calcium, Total	11000 J	1000 J	130000 J	---
Chromium, Total	7.7	3.1	3	21
Iron, Total	11000 J	3500 J	3800 J	15000 / 15900
Lead, Total	15 J+	2.6 J+	14 J+	107
Manganese, Total	440 J-	110 J-	240 J-	630 / 636
Mercury, Total	0.026	ND	ND	0.89
Nickel, Total	9.1 J	3.2 J	3.4 J	100
Potassium, Total	370	150	280	---
Selenium, Total	0.59	0.26 J	0.28 J	1.3
Silver, Total	ND	ND	ND	4.4
Zinc, Total	27	8.5	15	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.51	0.17 J	0.13 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.0026 J	0.005
Chromium, TCLP	ND	ND	ND	0.1
Iron, TCLP	ND	0.2 J	7.7	5
Lead, TCLP	ND	ND	0.015	0.0075
Manganese, TCLP	1.3	0.099	2.5	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	0.022 J	0.1
Selenium, TCLP	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.14 J	0.65	1	5
SPLP Metals (mg/l)				
Arsenic, SPLP	0.023 J	ND	ND	0.05
Barium, SPLP	0.63	0.2 J	0.051 J	2
Beryllium, SPLP	0.0044	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.11	0.027	ND	0.1
Iron, SPLP	120 J-	22 J-	5.7 J-	5
Lead, SPLP	0.096	0.031	0.038	0.0075
Manganese, SPLP	1.9	0.84	0.1	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.096	0.022 J	ND	0.1
Selenium, SPLP	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.33 J	0.088 J	0.044 J	5

Summary Table of ISGS Site No. 2948-105
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.

^A - 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.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108728-1
Client Project/Site: IDOT - IL Route 113 - WO 040

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

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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: 500-108728-1

Client Sample ID: R105-1(0-1)-031116

Lab Sample ID: 500-108728-5

Date Collected: 03/11/16 08:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 82.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		03/15/16 17:19	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		03/15/16 17:19	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 17:19	1
Bromomethane	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 17:19	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 17:19	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 17:19	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		03/15/16 17:19	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 17:19	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 17:19	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 17:19	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		03/15/16 17:19	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 17:19	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		03/15/16 17:19	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 17:19	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 17:19	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 17:19	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 17:19	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		03/15/16 17:19	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		03/15/16 17:19	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/15/16 17:19	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 17:19	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/15/16 17:19	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		03/15/16 17:19	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		03/15/16 17:19	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 17:19	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		03/15/16 17:19	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		03/15/16 17:19	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/15/16 17:19	1
Trichloroethene	<6.1		6.1	1.6	ug/Kg	☼		03/15/16 17:19	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		03/15/16 17:19	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/15/16 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 17:19	1
Dibromofluoromethane	106		75 - 120		03/15/16 17:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		03/15/16 17:19	1
Toluene-d8 (Surr)	118		75 - 122		03/15/16 17:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-1(0-1)-031116

Lab Sample ID: 500-108728-5

Date Collected: 03/11/16 08:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 82.0

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	☼	03/16/16 16:20	03/23/16 16:02	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Benzo[a]anthracene	15	J	39	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Benzo[a]pyrene	20	J*	39	7.6	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Benzo[b]fluoranthene	39	*	39	8.4	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Benzo[k]fluoranthene	<39	*	39	12	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Carbazole	<200		200	98	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Chrysene	20	J	39	11	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Fluoranthene	28	J	39	7.3	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-1(0-1)-031116

Lab Sample ID: 500-108728-5

Date Collected: 03/11/16 08:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 82.0

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	10	J*	39	10	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Isophorone	<200		200	44	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Phenanthrene	10	J	39	5.5	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Phenol	<200		200	87	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Pyrene	41		39	7.8	ug/Kg	☼	03/16/16 16:20	03/23/16 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		35 - 137				03/16/16 16:20	03/23/16 16:02	1
2-Fluorobiphenyl	74		25 - 119				03/16/16 16:20	03/23/16 16:02	1
2-Fluorophenol	78		25 - 110				03/16/16 16:20	03/23/16 16:02	1
Nitrobenzene-d5	72		25 - 115				03/16/16 16:20	03/23/16 16:02	1
Phenol-d5	80		31 - 110				03/16/16 16:20	03/23/16 16:02	1
Terphenyl-d14	126		36 - 134				03/16/16 16:20	03/23/16 16:02	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		03/22/16 08:06	03/24/16 03:54	1
Barium	0.51		0.50	0.050	mg/L		03/22/16 08:06	03/24/16 03:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 03:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 03:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 03:54	1
Manganese	1.3		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 03:54	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:54	1
Zinc	0.14	J	0.50	0.020	mg/L		03/22/16 08:06	03/24/16 03:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Barium	0.63		0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:00	1
Beryllium	0.0044		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:00	1
Chromium	0.11		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Cobalt	0.029		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Copper	0.069		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Iron	120		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:00	1
Lead	0.096		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:00	1
Manganese	1.9		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Nickel	0.096		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-1(0-1)-031116

Lab Sample ID: 500-108728-5

Date Collected: 03/11/16 08:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 82.0

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		03/22/16 16:36	03/24/16 17:00	1
Zinc	0.33	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:00	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 13:03	03/24/16 05:05	1
Arsenic	5.1		0.59	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Barium	61		0.59	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Beryllium	0.45		0.23	0.051	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Calcium	11000	B	12	3.8	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Chromium	7.7		0.59	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Cobalt	6.6		0.29	0.066	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Copper	6.8		0.59	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Iron	11000	B	12	4.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Lead	15		0.29	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Magnesium	7200	B	5.9	2.4	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Manganese	440	B	0.59	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Nickel	9.1		0.59	0.16	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Potassium	370		29	4.8	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Selenium	0.59		0.58	0.29	mg/Kg	☼	03/24/16 16:10	03/25/16 11:42	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/24/16 16:10	03/25/16 11:42	1
Sodium	710		59	7.7	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Vanadium	17		0.29	0.086	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	1
Zinc	27		1.2	0.37	mg/Kg	☼	03/17/16 13:03	03/24/16 05:05	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		03/21/16 18:30	03/22/16 15:09	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		03/23/16 09:00	03/24/16 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		18	9.3	ug/Kg	☼	03/21/16 15:30	03/22/16 21:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			03/16/16 12:46	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-2(0-1)-031116

Lab Sample ID: 500-108728-6

Date Collected: 03/11/16 08:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 17:45	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 17:45	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/15/16 17:45	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 17:45	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 17:45	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 17:45	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/15/16 17:45	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/15/16 17:45	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/15/16 17:45	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/15/16 17:45	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/15/16 17:45	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 17:45	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 17:45	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/15/16 17:45	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/15/16 17:45	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 17:45	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/15/16 17:45	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/15/16 17:45	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/15/16 17:45	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 17:45	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/15/16 17:45	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/15/16 17:45	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/15/16 17:45	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/15/16 17:45	1
Dibromofluoromethane	106		75 - 120		03/15/16 17:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		03/15/16 17:45	1
Toluene-d8 (Surr)	116		75 - 122		03/15/16 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	<170		170	37	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-2(0-1)-031116

Lab Sample ID: 500-108728-6

Date Collected: 03/11/16 08:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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	☼	03/16/16 16:20	03/23/16 15:32	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Acenaphthene	8.4	J	34	6.2	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Acenaphthylene	18	J	34	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Anthracene	18	J	34	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Benzo[a]anthracene	64		34	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Benzo[a]pyrene	67	*	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Benzo[b]fluoranthene	110	*	34	7.5	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Benzo[g,h,i]perylene	27	J *	34	11	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Benzo[k]fluoranthene	38	*	34	10	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Carbazole	<170		170	86	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Chrysene	67		34	9.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Dibenz(a,h)anthracene	7.4	J *	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Fluoranthene	140		34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Fluorene	13	J	34	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-2(0-1)-031116

Lab Sample ID: 500-108728-6

Date Collected: 03/11/16 08:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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	29	J*	34	8.9	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Isophorone	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Pentachlorophenol	<700		700	550	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Phenanthrene	88		34	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Phenol	<170		170	77	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Pyrene	180		34	6.9	ug/Kg	☼	03/16/16 16:20	03/23/16 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		35 - 137				03/16/16 16:20	03/23/16 15:32	1
2-Fluorobiphenyl	85		25 - 119				03/16/16 16:20	03/23/16 15:32	1
2-Fluorophenol	94		25 - 110				03/16/16 16:20	03/23/16 15:32	1
Nitrobenzene-d5	82		25 - 115				03/16/16 16:20	03/23/16 15:32	1
Phenol-d5	96		31 - 110				03/16/16 16:20	03/23/16 15:32	1
Terphenyl-d14	129		36 - 134				03/16/16 16:20	03/23/16 15:32	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 08:06	03/24/16 03:59	1
Barium	0.17	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 03:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 03:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 03:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Iron	0.20	J	0.40	0.20	mg/L		03/22/16 08:06	03/24/16 03:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 03:59	1
Manganese	0.099		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 03:59	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 03:59	1
Zinc	0.65		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 03:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Barium	0.20	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:05	1
Chromium	0.027		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Copper	0.016	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Iron	22		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:05	1
Lead	0.031		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:05	1
Manganese	0.84		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Nickel	0.022	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-2(0-1)-031116

Lab Sample ID: 500-108728-6

Date Collected: 03/11/16 08:25

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.9

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		03/22/16 16:36	03/24/16 17:05	1
Zinc	0.088	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:05	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 13:03	03/24/16 05:10	1
Arsenic	1.5		0.53	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Barium	16		0.53	0.097	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Beryllium	0.10	J	0.21	0.046	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Calcium	1000	B	11	3.4	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Chromium	3.1		0.53	0.091	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Cobalt	1.6		0.27	0.060	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Copper	1.8		0.53	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Iron	3500	B	11	4.1	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Lead	2.6		0.27	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Magnesium	750	B	5.3	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Manganese	110	B	0.53	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Nickel	3.2		0.53	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Potassium	150		27	4.3	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Selenium	0.26	J	0.53	0.26	mg/Kg	☼	03/24/16 16:10	03/25/16 11:47	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/24/16 16:10	03/25/16 11:47	1
Sodium	240		53	7.0	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Vanadium	5.9		0.27	0.077	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	1
Zinc	8.5		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 05:10	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		03/21/16 18:30	03/22/16 15:11	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		03/23/16 09:00	03/23/16 15:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.3	ug/Kg	☼	03/21/16 15:30	03/22/16 21:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.72		0.200	0.200	SU			03/16/16 12:49	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-3(0-1)-031116

Lab Sample ID: 500-108728-7

Date Collected: 03/11/16 08:35

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/16/16 14:05	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/16/16 14:05	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/16/16 14:05	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/16/16 14:05	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/16/16 14:05	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/16/16 14:05	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/16/16 14:05	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/16/16 14:05	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/16/16 14:05	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/16/16 14:05	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/16/16 14:05	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/16/16 14:05	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/16/16 14:05	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/16/16 14:05	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/16/16 14:05	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/16/16 14:05	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/16/16 14:05	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/16/16 14:05	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/16/16 14:05	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/16/16 14:05	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/16/16 14:05	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/16/16 14:05	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/16/16 14:05	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/16/16 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		03/16/16 14:05	1
Dibromofluoromethane	109		75 - 120		03/16/16 14:05	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/16/16 14:05	1
Toluene-d8 (Surr)	116		75 - 122		03/16/16 14:05	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	☼	03/16/16 16:20	03/23/16 22:21	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-3(0-1)-031116

Lab Sample ID: 500-108728-7

Date Collected: 03/11/16 08:35

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.2

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	☼	03/16/16 16:20	03/23/16 22:21	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,4-Dinitrophenol	<690	*	690	600	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Methylnaphthalene	7.4	J	34	6.3	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4,6-Dinitro-2-methylphenol	<690		690	270	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
4-Nitrophenol	<690		690	320	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Acenaphthylene	20	J	34	4.5	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Anthracene	13	J	34	5.7	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Benzo[a]anthracene	86	*	34	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Benzo[a]pyrene	110	*	34	6.6	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Benzo[b]fluoranthene	180	*	34	7.4	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Benzo[g,h,i]perylene	230	*	34	11	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Benzo[k]fluoranthene	71	*	34	10	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Bis(2-ethylhexyl) phthalate	<170	*	170	62	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Carbazole	<170		170	85	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Chrysene	120	*	34	9.3	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Dibenz(a,h)anthracene	<34	*	34	6.6	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Fluoranthene	100		34	6.3	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Fluorene	<34		34	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-3(0-1)-031116

Lab Sample ID: 500-108728-7

Date Collected: 03/11/16 08:35

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.2

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	93	*	34	8.8	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Isophorone	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Naphthalene	<34		34	5.2	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Phenanthrene	92		34	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Phenol	<170		170	76	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Pyrene	360	*	34	6.8	ug/Kg	☼	03/16/16 16:20	03/23/16 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				03/16/16 16:20	03/23/16 22:21	1
2-Fluorobiphenyl	77		25 - 119				03/16/16 16:20	03/23/16 22:21	1
2-Fluorophenol	71		25 - 110				03/16/16 16:20	03/23/16 22:21	1
Nitrobenzene-d5	66		25 - 115				03/16/16 16:20	03/23/16 22:21	1
Phenol-d5	72		31 - 110				03/16/16 16:20	03/23/16 22:21	1
Terphenyl-d14	175	X *	36 - 134				03/16/16 16:20	03/23/16 22:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Barium	0.13	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:04	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Cobalt	0.026		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Iron	7.7		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:04	1
Lead	0.015		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:04	1
Manganese	2.5		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Nickel	0.022	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:04	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:04	1
Zinc	1.0		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Barium	0.051	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Iron	5.7		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:09	1
Lead	0.038		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:09	1
Manganese	0.10		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: R105-3(0-1)-031116

Lab Sample ID: 500-108728-7

Date Collected: 03/11/16 08:35

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 92.2

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		03/22/16 16:36	03/24/16 17:09	1
Zinc	0.044	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 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	☼	03/17/16 13:03	03/24/16 05:14	1
Arsenic	1.6		0.52	0.24	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Barium	12		0.52	0.095	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Beryllium	0.12	J	0.21	0.045	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Cadmium	0.068	J	0.10	0.030	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Calcium	130000		100	33	mg/Kg	☼	03/17/16 13:03	03/24/16 12:35	10
Chromium	3.0		0.52	0.089	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Cobalt	1.8		0.26	0.059	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Copper	3.1		0.52	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Iron	3800	B	10	4.0	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Lead	14		0.26	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Magnesium	77000	B	52	21	mg/Kg	☼	03/17/16 13:03	03/24/16 12:35	10
Manganese	240	B	0.52	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Nickel	3.4		0.52	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Potassium	280		26	4.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Selenium	0.28	J	0.54	0.27	mg/Kg	☼	03/24/16 16:10	03/25/16 11:51	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/24/16 16:10	03/25/16 11:51	1
Sodium	540		52	6.8	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Vanadium	4.3		0.26	0.076	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	1
Zinc	15		1.0	0.33	mg/Kg	☼	03/17/16 13:03	03/24/16 05:14	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		03/21/16 18:30	03/22/16 15:21	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 09:00	03/23/16 15:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.4	ug/Kg	☼	03/21/16 15:30	03/22/16 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU			03/16/16 12:51	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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) _____ Bill To (optional) _____
 Contact: S. Radwan Kumar Contact: _____
 Company: Waston Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108728
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SPLP Metals		Other		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								
Project Location/State		Lab PM												
Lab ID	MS/MSD	Sample ID	Date	Time									Comments	
Waston														
IDOT-040														
Braidwood & Custer Park / IL		D. Wright												
T. Walls														
11		F108-1(0-1)-031116	3-11-16	0930	2	S	X	X	X	X	X			
12		AL110-1(0-1)-031116		0940										
13		AL110-2(0-1)-031116		0950										
14		R09-7(0-1)-031116		1035										
15		VL84-1(0-2)-031116		1045										
16		VL84-2(0-1)-031116		1055										
17		VL84-3(0-1)-031116		1105										
18		VL84-4(0-1)-031116		1110										
19		AL79-4(0-1)-031116		1115										
20		AL79-4(0-1)-031116	3-11-16	1115	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>Waston</u>	Date: <u>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-ATI</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>16:20</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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):

17707 W. IL 113, (ISGS Site No. 2948-106)

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: 41.208422297 Longitude: -88.033718237
(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: 41.208422297 Longitude: -88.033718237

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 F106-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-106. SEE FIGURE 3-19 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: 500-108728-1.
ALSO SEE FIGURE 4-19 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. 2948-106
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	F106-1(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	
Location ID	F106-1	
Depth	0 - 1	
Location Code	2948-106	
Parameter		
Laboratory pH	8.64	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	110 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	1.7 J	11.3 / 13
Barium, Total	18	1500
Beryllium, Total	0.18 J	22
Cadmium, Total	0.071 J	5.2
Calcium, Total	22000 J	---
Chromium, Total	3.4	21
Iron, Total	4000 J	15000 / 15900
Lead, Total	16 J+	107
Manganese, Total	130 J-	630 / 636
Mercury, Total	ND	0.89
Nickel, Total	3 J	100
Potassium, Total	180	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Zinc, Total	15	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.22 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0022 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.6	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.53	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.15 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	0.075	0.0075
Manganese, SPLP	0.3	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. 2948-106
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.

^A - 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: 500-108728-1

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

Jodie Bracken

Authorized for release by:

3/29/2016 11:36:30 AM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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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: 500-108728-1

Client Sample ID: F106-1(0-1)-031116

Lab Sample ID: 500-108728-8

Date Collected: 03/11/16 09:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	☼		03/15/16 18:37	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 18:37	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/15/16 18:37	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 18:37	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 18:37	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 18:37	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/15/16 18:37	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/15/16 18:37	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/15/16 18:37	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 18:37	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 18:37	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 18:37	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 18:37	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/15/16 18:37	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/15/16 18:37	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/15/16 18:37	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/15/16 18:37	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/15/16 18:37	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/15/16 18:37	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/15/16 18:37	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/15/16 18:37	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/15/16 18:37	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/15/16 18:37	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/15/16 18:37	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		03/15/16 18:37	1
Dibromofluoromethane	106		75 - 120		03/15/16 18:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		03/15/16 18:37	1
Toluene-d8 (Surr)	120		75 - 122		03/15/16 18:37	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	☼	03/16/16 16:20	03/23/16 19:25	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F106-1(0-1)-031116

Lab Sample ID: 500-108728-8

Date Collected: 03/11/16 09:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	<360		360	83	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,4-Dinitrophenol	<730	*	730	640	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Methylnaphthalene	18	J	36	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Acenaphthylene	30	J	36	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Anthracene	14	J	36	6.1	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Benzo[a]anthracene	75	*	36	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Benzo[a]pyrene	110	*	36	7.0	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Benzo[b]fluoranthene	160	*	36	7.8	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Benzo[g,h,i]perylene	99	*	36	12	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Benzo[k]fluoranthene	60	*	36	11	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Carbazole	<180		180	91	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Chrysene	110	*	36	9.9	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Dibenz(a,h)anthracene	21	J *	36	7.0	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Fluoranthene	84		36	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F106-1(0-1)-031116

Lab Sample ID: 500-108728-8

Date Collected: 03/11/16 09:10

Matrix: Solid

Date Received: 03/11/16 16:20

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	44	*	36	9.4	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Isophorone	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Phenanthrene	120		36	5.1	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Phenol	<180		180	81	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Pyrene	230	*	36	7.2	ug/Kg	☼	03/16/16 16:20	03/23/16 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				03/16/16 16:20	03/23/16 19:25	1
2-Fluorobiphenyl	84		25 - 119				03/16/16 16:20	03/23/16 19:25	1
2-Fluorophenol	80		25 - 110				03/16/16 16:20	03/23/16 19:25	1
Nitrobenzene-d5	79		25 - 115				03/16/16 16:20	03/23/16 19:25	1
Phenol-d5	82		31 - 110				03/16/16 16:20	03/23/16 19:25	1
Terphenyl-d14	189	X *	36 - 134				03/16/16 16:20	03/23/16 19:25	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		03/22/16 08:06	03/24/16 04:09	1
Barium	0.22	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:09	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:09	1
Manganese	1.6		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:09	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:09	1
Zinc	0.53		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:09	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		03/22/16 16:36	03/24/16 17:13	1
Barium	0.15	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:13	1
Chromium	0.027		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:13	1
Copper	0.020	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:13	1
Iron	21		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:13	1
Lead	0.075		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:13	1
Manganese	0.30		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:13	1
Nickel	0.022	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F106-1(0-1)-031116

Lab Sample ID: 500-108728-8

Date Collected: 03/11/16 09:10

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/22/16 16:36	03/24/16 17:13	1
Zinc	0.12	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Arsenic	1.7		0.55	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Barium	18		0.55	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Beryllium	0.18	J	0.22	0.047	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Cadmium	0.071	J	0.11	0.032	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Calcium	22000	B	11	3.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Chromium	3.4		0.55	0.094	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Cobalt	1.6		0.27	0.062	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Copper	2.8		0.55	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Iron	4000	B	11	4.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Lead	16		0.27	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Magnesium	13000	B	5.5	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Manganese	130	B	0.55	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Nickel	3.0		0.55	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Potassium	180		27	4.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/24/16 16:10	03/25/16 11:57	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/24/16 16:10	03/25/16 11:57	1
Sodium	270		55	7.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Vanadium	6.8		0.27	0.080	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	1
Zinc	15		1.1	0.35	mg/Kg	☼	03/17/16 13:03	03/24/16 05:20	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		03/21/16 18:30	03/22/16 15:23	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		03/23/16 09:00	03/23/16 15:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.7	ug/Kg	☼	03/21/16 15:30	03/22/16 21:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		0.200	0.200	SU			03/16/16 12:54	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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)	Bill To (optional)
Contact: <u>S. Baburkumar</u>	Contact: _____
Company: <u>Weston Solutions</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: <u>SAMP</u>
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference#: _____


Chain of Custody Record

Lab Job #: 500-108728

Chain of Custody Number: _____

Page 1 of 4

Temperature °C of Cooler: 3.5

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix											
<u>Weston</u>																															
Project Name		Lab Project #		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix											
<u>IDOT-040</u>																															
Project Location/State		Lab PM		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix											
<u>Braidwood & Custer Park / IL</u>		<u>D. Wright</u>																													
Sampler		Lab PM		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix											
<u>T. Walls</u>		<u>D. Wright</u>																													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TU-P/SPLP Metals	PH	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		AL104-6(0-1)-031116	3-11-16	0750	2	S	X	X	X	X	X	 500-108728 COC																			
2		AL104-7(0-1)-031116		0755																											
3		AL104-8(0-1)-031116		0805																											
4		AL104-9(0-1)-031116		0810																											
5		R105-1(0-1)-031116		0820																											
6		R105-2(0-1)-031116		0825																											
7		R105-3(0-1)-031116		0835																											
8		F106-1(0-1)-031116		0910																											
9		AB107-1(0-1)-031116		0920																											
10		AB107-1(0-1)-031116D	3-11-16	0920	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>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1515</u>	Lab Courier <u>TA-CMI</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>1620</u>	Received By <u>[Signature]</u>	Company <u>TA-CMI</u>	Date <u>03/11/16</u>	Time <u>1620</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:
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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):

17647 W. IL 113, (ISGS Site No. 2948-107)

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: 41.207399171 Longitude: -88.032843127
(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: 41.207399171 Longitude: -88.032843127

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 AB107-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-107. SEE FIGURE 3-19 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: 500-108728-1.
ALSO SEE FIGURE 4-19 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:



Summary Table of ISGS Site No. 2948-107
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	AB107-1(0-1)-031116	AB107-1(0-1)-031116D	Soil Reference Concentrations
Sample Date	3/11/2016	3/11/2016	
Location ID	AB107-1	AB107-1	
Depth	0 - 1	0 - 1	
Location Code	2948-107	2948-107	
Parameter			
Laboratory pH	8.39	8.46	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	960 J	430 J	900 / 1100 / 1800
Benzo(a)pyrene	1200 J	620 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1800 J	970 J	900 / 1500 / 2100
Carbazole	99 J	ND	600
Indeno(1,2,3-cd)pyrene	840 J	430 J	900 / 900 / 1600
Total Metals (mg/kg)			
Arsenic, Total	1.1 J	1.2 J	11.3 / 13
Barium, Total	16	16	1500
Beryllium, Total	0.16 J	0.19 J	22
Cadmium, Total	0.079 J	0.12	5.2
Calcium, Total	130000 J	120000 J	---
Chromium, Total	3.3	3.9	21
Iron, Total	4200 J	4700 J	15000 / 15900
Lead, Total	21 J+	32 J+	107
Manganese, Total	220 J-	200 J-	630 / 636
Mercury, Total	0.01 J	ND	0.89
Nickel, Total	3.7 J	3.9 J	100
Potassium, Total	250	260	---
Zinc, Total	17	20	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.2 J	0.26 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	1.4	1.4	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	0.012 J	ND	0.1
Zinc, TCLP	0.75	0.63	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.071 J	0.093 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.013 J	0.016 J	0.1
Iron, SPLP	7.7 J-	10 J-	5
Lead, SPLP	0.045	0.063	0.0075
Manganese, SPLP	0.095	0.13	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	ND	0.011 J	0.1
Zinc, SPLP	0.055 J	0.073 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108728-1

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

Jodie Bracken

Authorized for release by:

3/29/2016 11:36:30 AM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

TotalAccess

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Visit us at:

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: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116

Lab Sample ID: 500-108728-9

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 19:03	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:03	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/15/16 19:03	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:03	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:03	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:03	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 19:03	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:03	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 19:03	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/15/16 19:03	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:03	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:03	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:03	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:03	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 19:03	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/15/16 19:03	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 19:03	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/15/16 19:03	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 19:03	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:03	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:03	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:03	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:03	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:03	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/15/16 19:03	1
Dibromofluoromethane	109		75 - 120		03/15/16 19:03	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		03/15/16 19:03	1
Toluene-d8 (Surr)	119		75 - 122		03/15/16 19:03	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	38	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116

Lab Sample ID: 500-108728-9

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

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	☼	03/16/16 16:20	03/24/16 20:04	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,4-Dinitrophenol	<720	*	720	630	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Methylnaphthalene	53		35	6.6	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4,6-Dinitro-2-methylphenol	<720	*	720	290	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Bromophenyl phenyl ether	<180	*	180	47	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Acenaphthene	83		35	6.4	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Acenaphthylene	340		35	4.7	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Carbazole	99	J *	180	89	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Dibenzofuran	71	J	180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Di-n-butyl phthalate	<180	*	180	54	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Di-n-octyl phthalate	<180	*	180	58	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Fluorene	130		35	5.0	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Hexachlorobenzene	<72	*	72	8.3	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Isophorone	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Naphthalene	39		35	5.5	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
N-Nitrosodiphenylamine	<180	*	180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Pentachlorophenol	<720	*	720	570	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1
Phenol	<180		180	79	ug/Kg	☼	03/16/16 16:20	03/24/16 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		35 - 137	03/16/16 16:20	03/24/16 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116

Lab Sample ID: 500-108728-9

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	03/16/16 16:20	03/24/16 20:04	1
2-Fluorophenol	41		25 - 110	03/16/16 16:20	03/24/16 20:04	1
Nitrobenzene-d5	39		25 - 115	03/16/16 16:20	03/24/16 20:04	1
Phenol-d5	46		31 - 110	03/16/16 16:20	03/24/16 20:04	1
Terphenyl-d14	153	X *	36 - 134	03/16/16 16:20	03/24/16 20:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	300		180	30	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Benzo[a]anthracene	960	*	180	24	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Benzo[a]pyrene	1200	*	180	35	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Benzo[b]fluoranthene	1800	*	180	39	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Benzo[g,h,i]perylene	1000	*	180	57	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Benzo[k]fluoranthene	630	*	180	53	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Chrysene	1100	*	180	49	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Dibenz(a,h)anthracene	<180	*	180	34	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Fluoranthene	1500		180	33	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Indeno[1,2,3-cd]pyrene	840	*	180	46	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Phenanthrene	1600		180	25	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	5
Pyrene	3800	*	180	35	ug/Kg	☼	03/16/16 16:20	03/23/16 19:55	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		03/22/16 08:06	03/24/16 04:15	1
Barium	0.20	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:15	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Cobalt	0.021	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:15	1
Manganese	1.4		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Nickel	0.012	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:15	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:15	1
Zinc	0.75		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:15	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		03/22/16 16:36	03/24/16 17:25	1
Barium	0.071	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:25	1
Chromium	0.013	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1
Copper	0.014	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1
Iron	7.7		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:25	1
Lead	0.045		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:25	1
Manganese	0.095		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116

Lab Sample ID: 500-108728-9

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:25	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:25	1
Zinc	0.055	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:25	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	☼	03/17/16 13:03	03/24/16 05:25	1
Arsenic	1.1		0.52	0.24	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Barium	16		0.52	0.096	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Beryllium	0.16	J	0.21	0.045	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Cadmium	0.079	J	0.10	0.030	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Calcium	130000		100	34	mg/Kg	☼	03/17/16 13:03	03/24/16 12:39	10
Chromium	3.3		0.52	0.090	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Cobalt	1.9		0.26	0.059	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Copper	3.8		0.52	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Iron	4200	B	10	4.0	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Lead	21		0.26	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Magnesium	82000	B	52	21	mg/Kg	☼	03/17/16 13:03	03/24/16 12:39	10
Manganese	220	B	0.52	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Nickel	3.7		0.52	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Potassium	250		26	4.3	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/24/16 16:10	03/25/16 12:10	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/24/16 16:10	03/25/16 12:10	1
Sodium	380		52	6.9	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Vanadium	4.7		0.26	0.076	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	1
Zinc	17		1.0	0.33	mg/Kg	☼	03/17/16 13:03	03/24/16 05:25	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		03/21/16 18:30	03/22/16 15:25	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		03/23/16 09:00	03/23/16 15:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J	18	9.3	ug/Kg	☼	03/21/16 15:30	03/22/16 21:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			03/16/16 12:57	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116D

Lab Sample ID: 500-108728-10

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/15/16 19:28	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:28	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/15/16 19:28	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:28	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:28	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:28	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 19:28	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 19:28	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/15/16 19:28	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:28	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:28	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 19:28	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:28	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 19:28	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/15/16 19:28	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:28	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/15/16 19:28	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 19:28	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:28	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/15/16 19:28	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:28	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:28	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:28	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		03/15/16 19:28	1
Dibromofluoromethane	106		75 - 120		03/15/16 19:28	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/15/16 19:28	1
Toluene-d8 (Surr)	118		75 - 122		03/15/16 19:28	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	☼	03/16/16 16:20	03/24/16 20:28	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116D

Lab Sample ID: 500-108728-10

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,4-Dinitrophenol	<730	*	730	640	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Methylnaphthalene	20	J	36	6.6	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4,6-Dinitro-2-methylphenol	<730	*	730	290	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Bromophenyl phenyl ether	<180	*	180	48	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Acenaphthene	22	J	36	6.5	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Acenaphthylene	180		36	4.8	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Carbazole	<180	*	180	90	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Di-n-butyl phthalate	<180	*	180	55	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Di-n-octyl phthalate	<180	*	180	59	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Hexachlorobenzene	<73	*	73	8.4	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Isophorone	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Naphthalene	12	J	36	5.6	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
N-Nitrosodiphenylamine	<180	*	180	43	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Pentachlorophenol	<730	*	730	580	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1
Phenol	<180		180	80	ug/Kg	☼	03/16/16 16:20	03/24/16 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137	03/16/16 16:20	03/24/16 20:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116D

Lab Sample ID: 500-108728-10

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	03/16/16 16:20	03/24/16 20:28	1
2-Fluorophenol	71		25 - 110	03/16/16 16:20	03/24/16 20:28	1
Nitrobenzene-d5	65		25 - 115	03/16/16 16:20	03/24/16 20:28	1
Phenol-d5	64		31 - 110	03/16/16 16:20	03/24/16 20:28	1
Terphenyl-d14	170	X *	36 - 134	03/16/16 16:20	03/24/16 20:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	80	J	180	30	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Benzo[a]anthracene	430	*	180	24	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Benzo[a]pyrene	620	*	180	35	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Benzo[b]fluoranthene	970	*	180	39	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Benzo[g,h,i]perylene	740	*	180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Benzo[k]fluoranthene	410	*	180	53	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Chrysene	560	*	180	49	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Dibenz(a,h)anthracene	<180	*	180	35	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Fluoranthene	620		180	34	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Indeno[1,2,3-cd]pyrene	430	*	180	47	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Phenanthrene	350		180	25	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	5
Pyrene	1700	*	180	36	ug/Kg	☼	03/16/16 16:20	03/23/16 20:24	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		03/22/16 08:06	03/24/16 04:20	1
Barium	0.26	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:20	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:20	1
Manganese	1.4		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:20	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:20	1
Zinc	0.63		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:20	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		03/22/16 16:36	03/24/16 17:30	1
Barium	0.093	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:30	1
Chromium	0.016	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1
Copper	0.017	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1
Iron	10		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:30	1
Lead	0.063		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:30	1
Manganese	0.13		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AB107-1(0-1)-031116D

Lab Sample ID: 500-108728-10

Date Collected: 03/11/16 09:20

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.011	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:30	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:30	1
Zinc	0.073	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.23	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Arsenic	1.2		0.55	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Barium	16		0.55	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Beryllium	0.19	J	0.22	0.047	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Cadmium	0.12		0.11	0.032	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Calcium	120000		110	35	mg/Kg	☼	03/17/16 13:03	03/24/16 12:51	10
Chromium	3.9		0.55	0.094	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Cobalt	2.1		0.27	0.062	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Copper	5.4		0.55	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Iron	4700	B	11	4.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Lead	32		0.27	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Magnesium	73000	B	55	22	mg/Kg	☼	03/17/16 13:03	03/24/16 12:51	10
Manganese	200	B	0.55	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Nickel	3.9		0.55	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Potassium	260		27	4.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/24/16 16:10	03/25/16 12:16	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/24/16 16:10	03/25/16 12:16	1
Sodium	350		55	7.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Vanadium	5.1		0.27	0.080	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1
Zinc	20		1.1	0.35	mg/Kg	☼	03/17/16 13:03	03/24/16 05:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 15:41	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 09:00	03/23/16 15:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	8.9	ug/Kg	☼	03/21/16 15:30	03/22/16 21:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			03/16/16 12:59	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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) _____ Bill To (optional) _____
 Contact: S. Radwan Kumar Contact: _____
 Company: Waston Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108728
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SPLP Metals		Other		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								
Project Location/State		Lab PM												
Lab ID	MS/MSD	Sample ID	Date	Time									Comments	
Waston														3.5
IDOT-040														
Braidwood & Custer Park / IL		D. Wright												
T. Walls														
11		F108-1(0-1)-031116	3-11-16	0930	2	S	X	X	X	X	X			
12		AL110-1(0-1)-031116		0940										
13		AL110-2(0-1)-031116		0950										
14		R09-7(0-1)-031116		1035										
15		VL84-1(0-2)-031116		1045										
16		VL84-2(0-1)-031116		1055										
17		VL84-3(0-1)-031116		1105										
18		VL84-4(0-1)-031116		1110										
19		AL79-4(0-1)-031116		1115										
20		AL79-4(0-1)-031116	3-11-16	1115	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>Waston</u>	Date: <u>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-ATI</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>16:20</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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):
17621 W. IL 113, (ISGS Site No. 2948-108)

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: 41.206542546 Longitude: -88.031850078
(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: 41.206542546 Longitude: -88.031850078Uncontaminated 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 F108-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-108. SEE FIGURE 3-19 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: 500-108728-1.
ALSO SEE FIGURE 4-19 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. 2948-108
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	F108-1(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	
Location ID	F108-1	
Depth	0 - 1	
Location Code	2948-108	
Parameter		
Laboratory pH	8.28	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	370 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	1.5 J	11.3 / 13
Barium, Total	22	1500
Beryllium, Total	0.17 J	22
Cadmium, Total	0.12	5.2
Calcium, Total	100000 J	---
Chromium, Total	4.3	21
Iron, Total	4500 J	15000 / 15900
Lead, Total	45 J+	107
Manganese, Total	200 J-	630 / 636
Mercury, Total	0.01 J	0.89
Nickel, Total	3.9 J	100
Potassium, Total	320	---
Selenium, Total	0.44 J	1.3
Silver, Total	ND	4.4
Zinc, Total	24	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.18 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0024 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.4	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.59	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.065 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.015 J	0.1
Iron, SPLP	8.6 J-	5
Lead, SPLP	0.045	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	0.063 J	5

Summary Table of ISGS Site No. 2948-108
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.

^A - 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: 500-108728-1

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

Jodie Bracken

Authorized for release by:

3/29/2016 11:36:30 AM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

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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: 500-108728-1

Client Sample ID: F108-1(0-1)-031116

Lab Sample ID: 500-108728-11

Date Collected: 03/11/16 09:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/15/16 19:54	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:54	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/15/16 19:54	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:54	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:54	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:54	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/15/16 19:54	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/15/16 19:54	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/15/16 19:54	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/15/16 19:54	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/15/16 19:54	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:54	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:54	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:54	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/15/16 19:54	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/15/16 19:54	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 19:54	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/15/16 19:54	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/15/16 19:54	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/15/16 19:54	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:54	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/15/16 19:54	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/15/16 19:54	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/15/16 19:54	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/15/16 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/15/16 19:54	1
Dibromofluoromethane	110		75 - 120		03/15/16 19:54	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		03/15/16 19:54	1
Toluene-d8 (Surr)	120		75 - 122		03/15/16 19:54	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	☼	03/16/16 16:20	03/23/16 20:53	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F108-1(0-1)-031116

Lab Sample ID: 500-108728-11

Date Collected: 03/11/16 09:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,4-Dinitrophenol	<700	*	700	610	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Methylnaphthalene	18	J	34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Acenaphthene	11	J	34	6.2	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Acenaphthylene	120		34	4.6	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Anthracene	40		34	5.8	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Benzo[a]anthracene	210	*	34	4.7	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Benzo[a]pyrene	370	*	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Benzo[b]fluoranthene	550	*	34	7.5	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Benzo[g,h,i]perylene	530	*	34	11	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Benzo[k]fluoranthene	210	*	34	10	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Bis(2-ethylhexyl) phthalate	<170	*	170	63	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Carbazole	<170		170	86	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Chrysene	270	*	34	9.4	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Dibenz(a,h)anthracene	66	*	34	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Fluoranthene	230		34	6.4	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Fluorene	11	J	34	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F108-1(0-1)-031116

Lab Sample ID: 500-108728-11

Date Collected: 03/11/16 09:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

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	370	*	34	9.0	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Isophorone	<170		170	39	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Naphthalene	7.2	J	34	5.3	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Pentachlorophenol	<700		700	550	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Phenanthrene	150		34	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Phenol	<170		170	77	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Pyrene	730	*	34	6.9	ug/Kg	☼	03/16/16 16:20	03/23/16 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				03/16/16 16:20	03/23/16 20:53	1
2-Fluorobiphenyl	82		25 - 119				03/16/16 16:20	03/23/16 20:53	1
2-Fluorophenol	76		25 - 110				03/16/16 16:20	03/23/16 20:53	1
Nitrobenzene-d5	71		25 - 115				03/16/16 16:20	03/23/16 20:53	1
Phenol-d5	78		31 - 110				03/16/16 16:20	03/23/16 20:53	1
Terphenyl-d14	189	X *	36 - 134				03/16/16 16:20	03/23/16 20:53	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		03/22/16 08:06	03/24/16 04:25	1
Barium	0.18	J	0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:25	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Cobalt	0.018	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Iron	<0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:25	1
Manganese	1.4		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:25	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:25	1
Zinc	0.59		0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:25	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		03/22/16 16:36	03/24/16 17:34	1
Barium	0.065	J	0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:34	1
Chromium	0.015	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:34	1
Copper	0.011	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:34	1
Iron	8.6		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:34	1
Lead	0.045		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:34	1
Manganese	0.11		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: F108-1(0-1)-031116

Lab Sample ID: 500-108728-11

Date Collected: 03/11/16 09:30

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 91.7

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		03/22/16 16:36	03/24/16 17:34	1
Zinc	0.063	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:34	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	☼	03/17/16 13:03	03/24/16 05:35	1
Arsenic	1.5		0.54	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Barium	22		0.54	0.099	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Beryllium	0.17	J	0.22	0.047	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Cadmium	0.12		0.11	0.031	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Calcium	100000		110	35	mg/Kg	☼	03/17/16 13:03	03/24/16 12:55	10
Chromium	4.3		0.54	0.093	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Cobalt	2.1		0.27	0.061	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Copper	4.1		0.54	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Iron	4500	B	11	4.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Lead	45		0.27	0.13	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Magnesium	63000	B	54	22	mg/Kg	☼	03/17/16 13:03	03/24/16 12:55	10
Manganese	200	B	0.54	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Nickel	3.9		0.54	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Potassium	320		27	4.4	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Selenium	0.44	J	0.52	0.26	mg/Kg	☼	03/24/16 16:10	03/25/16 12:21	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/24/16 16:10	03/25/16 12:21	1
Sodium	560		54	7.1	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Vanadium	5.6		0.27	0.079	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1
Zinc	24		1.1	0.34	mg/Kg	☼	03/17/16 13:03	03/24/16 05:35	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/21/16 18:30	03/22/16 15:43	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 09:00	03/23/16 16:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10	J	17	8.7	ug/Kg	☼	03/21/16 15:30	03/22/16 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			03/16/16 13:02	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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)	Bill To (optional)
Contact: <u>S. Radhakrishnan</u>	Contact: _____
Company: <u>Waston Solutions</u>	Company: _____
Address: _____	Address: <u>Same</u>
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108728

Chain of Custody Number: _____

Page 2 of 4

Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SLP Metals		PT		Preservative Key			
<u>Waston</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	NOCs	SNOCs	Total Metals	TCLP/SLP Metals	PT	Comments						
<u>IDOT-040</u>		<u>Braidwood & Custer Park / IL</u>															
Project Location/State		Lab Project #		Date	Time	X	X	X	X	X							
<u>Braidwood & Custer Park / IL</u>		<u>D. Wright</u>															
Sampler		Lab PM															
<u>T. Walls</u>		<u>D. Wright</u>															
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	NOCs	SNOCs	Total Metals	TCLP/SLP Metals	PT	Comments				
		Date	Time														
11		<u>F108-1(0-1)-031116</u>	<u>3-11-16</u>	<u>0930</u>	<u>2</u>	<u>S</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
12		<u>AL110-1(0-1)-031116</u>		<u>0940</u>													
13		<u>AL110-2(0-1)-031116</u>		<u>0950</u>													
14		<u>R09-7(0-1)-031116</u>		<u>1035</u>													
15		<u>VL84-1(0-2)-031116</u>		<u>1045</u>													
16		<u>VL84-2(0-1)-031116</u>		<u>1055</u>													
17		<u>VL84-3(0-1)-031116</u>		<u>1105</u>													
18		<u>VL84-4(0-1)-031116</u>		<u>1110</u>													
19		<u>AL79-4(0-1)-031116</u>		<u>1115</u>													
20		<u>AL79-4(0-1)-031116D</u>	<u>3-11-16</u>	<u>1115</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>Waston</u>	Date <u>3-11-16</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA-ATI</u>	Date <u>3/11/16</u>	Time <u>1515</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>3/11/16</u>	Time <u>16:20</u>	Received By <u>[Signature]</u>	Company <u>TA-ATI</u>	Date <u>03/11/16</u>	Time <u>16:20</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-ATI

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):

17500-17600 Blocks of W. IL 113, (ISGS Site No. 2948-110)

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: 41.205368796 Longitude: -88.029821334
(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: 41.205368796 Longitude: -88.029821334

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 AL110-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2948-110. SEE FIGURE 3-20 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: 500-108728-1.
ALSO SEE FIGURE 4-20 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. 2948-110
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	AL110-2(0-1)-031116	Soil Reference Concentrations
Sample Date	3/11/2016	
Location ID	AL110-2	
Depth	0 - 1	
Location Code	2948-110	
Parameter		
Laboratory pH	8.16	<6.25,>9.0
VOCs (ug/kg)	No Exceedances	
SVOCs (ug/kg)		
Benzo(a)pyrene	270 J	90 / 1300 / 2100
Total Metals (mg/kg)		
Arsenic, Total	4.4 J	11.3 / 13
Barium, Total	65	1500
Beryllium, Total	0.33	22
Cadmium, Total	0.16	5.2
Calcium, Total	14000 J	---
Chromium, Total	6.5	21
Iron, Total	8900 J	15000 / 15900
Lead, Total	39 J+	107
Manganese, Total	500 J-	630 / 636
Mercury, Total	0.025	0.89
Nickel, Total	7.1 J	100
Potassium, Total	250	---
Selenium, Total	0.76	1.3
Silver, Total	ND	4.4
Zinc, Total	31	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.65	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0021 J	0.005
Chromium, TCLP	ND	0.1
Iron, TCLP	0.4	5
Lead, TCLP	0.02	0.0075
Manganese, TCLP	7.7	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.013 J	0.1
Selenium, TCLP	ND	0.05
Silver, TCLP	ND	0.05
Zinc, TCLP	0.45 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.85	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.11	0.1
Iron, SPLP	81 J-	5
Lead, SPLP	0.2	0.0075
Manganese, SPLP	0.91	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.056	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Zinc, SPLP	0.28 J	5

Summary Table of ISGS Site No. 2948-110
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.

^A - 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: 500-108728-1
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

Jodie Bracken

Authorized for release by:
3/29/2016 11:36:30 AM
Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for
Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
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: 500-108728-1

Client Sample ID: AL110-2(0-1)-031116

Lab Sample ID: 500-108728-13

Date Collected: 03/11/16 09:50

Matrix: Solid

Date Received: 03/11/16 16:20

Percent Solids: 87.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	82		23	4.4	ug/Kg	☼		03/15/16 20:45	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 20:45	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/15/16 20:45	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 20:45	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 20:45	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/15/16 20:45	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 20:45	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 20:45	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/15/16 20:45	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/15/16 20:45	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/15/16 20:45	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/15/16 20:45	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 20:45	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/15/16 20:45	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/15/16 20:45	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 20:45	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 20:45	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/15/16 20:45	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/15/16 20:45	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/15/16 20:45	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 20:45	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/15/16 20:45	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/15/16 20:45	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/15/16 20:45	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/15/16 20:45	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/15/16 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		03/15/16 20:45	1
Dibromofluoromethane	112		75 - 120		03/15/16 20:45	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		03/15/16 20:45	1
Toluene-d8 (Surr)	118		75 - 122		03/15/16 20:45	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	39	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL110-2(0-1)-031116

Lab Sample ID: 500-108728-13

Date Collected: 03/11/16 09:50

Matrix: Solid

Date Received: 03/11/16 16:20

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	<360		360	84	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,4-Dinitrophenol	<740	*	740	640	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Methylnaphthalene	39		36	6.7	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Acenaphthene	47		36	6.6	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Acenaphthylene	29	J	36	4.8	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Anthracene	64		36	6.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Benzo[a]anthracene	210		36	4.9	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Benzo[a]pyrene	270	*	36	7.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Benzo[b]fluoranthene	490	*	36	7.9	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Benzo[g,h,i]perylene	140	*	36	12	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Benzo[k]fluoranthene	190	*	36	11	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Carbazole	<180		180	91	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Chrysene	270		36	10	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Dibenz(a,h)anthracene	26	J *	36	7.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Dibenzofuran	43	J	180	43	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Fluoranthene	550		36	6.8	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Fluorene	62		36	5.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL110-2(0-1)-031116

Lab Sample ID: 500-108728-13

Date Collected: 03/11/16 09:50

Matrix: Solid

Date Received: 03/11/16 16:20

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	140	*	36	9.5	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Isophorone	<180		180	41	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Naphthalene	18	J	36	5.6	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Phenanthrene	420		36	5.1	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Phenol	<180		180	81	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Pyrene	850		36	7.3	ug/Kg	☼	03/16/16 16:20	03/23/16 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				03/16/16 16:20	03/23/16 17:00	1
2-Fluorobiphenyl	70		25 - 119				03/16/16 16:20	03/23/16 17:00	1
2-Fluorophenol	73		25 - 110				03/16/16 16:20	03/23/16 17:00	1
Nitrobenzene-d5	65		25 - 115				03/16/16 16:20	03/23/16 17:00	1
Phenol-d5	72		31 - 110				03/16/16 16:20	03/23/16 17:00	1
Terphenyl-d14	123		36 - 134				03/16/16 16:20	03/23/16 17:00	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 08:06	03/24/16 04:36	1
Barium	0.65		0.50	0.050	mg/L		03/22/16 08:06	03/24/16 04:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 08:06	03/24/16 04:36	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		03/22/16 08:06	03/24/16 04:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Cobalt	0.018	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Copper	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Iron	0.40		0.40	0.20	mg/L		03/22/16 08:06	03/24/16 04:36	1
Lead	0.020		0.0075	0.0075	mg/L		03/22/16 08:06	03/24/16 04:36	1
Manganese	7.7		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Nickel	0.013	J	0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 08:06	03/24/16 04:36	1
Silver	<0.025		0.025	0.010	mg/L		03/22/16 08:06	03/24/16 04:36	1
Zinc	0.45	J	0.50	0.020	mg/L		03/22/16 08:06	03/24/16 04:36	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		03/22/16 16:36	03/24/16 17:42	1
Barium	0.85		0.50	0.050	mg/L		03/22/16 16:36	03/24/16 17:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/22/16 16:36	03/24/16 17:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/22/16 16:36	03/24/16 17:42	1
Chromium	0.11		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:42	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:42	1
Copper	0.043		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:42	1
Iron	81		0.40	0.20	mg/L		03/22/16 16:36	03/24/16 17:42	1
Lead	0.20		0.0075	0.0075	mg/L		03/22/16 16:36	03/24/16 17:42	1
Manganese	0.91		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:42	1
Nickel	0.056		0.025	0.010	mg/L		03/22/16 16:36	03/24/16 17:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/22/16 16:36	03/24/16 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

Client Sample ID: AL110-2(0-1)-031116

Lab Sample ID: 500-108728-13

Date Collected: 03/11/16 09:50

Matrix: Solid

Date Received: 03/11/16 16:20

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		03/22/16 16:36	03/24/16 17:42	1
Zinc	0.28	J	0.50	0.020	mg/L		03/22/16 16:36	03/24/16 17:42	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 13:03	03/24/16 05:54	1
Arsenic	4.4		0.55	0.25	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Barium	65		0.55	0.10	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Beryllium	0.33		0.22	0.048	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Cadmium	0.16		0.11	0.032	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Calcium	14000	B	11	3.6	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Chromium	6.5		0.55	0.095	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Cobalt	5.0		0.28	0.062	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Copper	6.2		0.55	0.12	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Iron	8900	B	11	4.3	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Lead	39		0.28	0.14	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Magnesium	8500	B	5.5	2.2	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Manganese	500	B	0.55	0.11	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Nickel	7.1		0.55	0.15	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Potassium	250		28	4.5	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Selenium	0.76		0.54	0.27	mg/Kg	☼	03/24/16 16:10	03/25/16 12:31	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/24/16 16:10	03/25/16 12:31	1
Sodium	940		55	7.3	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Vanadium	14		0.28	0.081	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	1
Zinc	31		1.1	0.35	mg/Kg	☼	03/17/16 13:03	03/24/16 05:54	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		03/21/16 18:30	03/22/16 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		03/23/16 09:00	03/23/16 16:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		18	9.4	ug/Kg	☼	03/21/16 15:30	03/22/16 21:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			03/16/16 13:10	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 113 - WO 040

TestAmerica Job ID: 500-108728-1

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
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
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: 500-108728-1

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) _____ Bill To (optional) _____
 Contact: S. Balasubramanian Contact: _____
 Company: Waston Solutions Company: _____
 Address: _____ Address: Same
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-108728
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler: 4.7 AS

Client		Client Project #		Preservative		Parameter		Total Metals		TCLP/SLP Metals		Other		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								
Project Location/State		Lab PM												
Lab ID	MS/MSD	Sample ID	Date	Time									Comments	
Client: <u>Waston</u>		Client Project #: _____												3.5
Project Name: <u>IDOT-040</u>		Lab Project #: _____												
Project Location/State: <u>Braidwood & Custer Park / IL</u>		Lab PM: <u>D. Wright</u>												
Sampler: <u>T. Walls</u>														
11		F108-1(0-1)-031116	3-11-16	0930	2	S	X	X	X	X	X			
12		AL110-1(0-1)-031116		0940										
13		AL110-2(0-1)-031116		0950										
14		R09-7(0-1)-031116		1035										
15		VL84-1(0-2)-031116		1045										
16		VL84-2(0-1)-031116		1055										
17		VL84-3(0-1)-031116		1105										
18		VL84-4(0-1)-031116		1110										
19		AL79-4(0-1)-031116		1115										
20		AL79-4(0-1)-031116	3-11-16	1115	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>Waston</u>	Date: <u>3-11-16</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>3/11/16</u>	Time: <u>1515</u>	Lab Courier: <u>TA-ATI</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>3/11/16</u>	Time: <u>16:20</u>	Received By: <u>[Signature]</u>	Company: <u>TA-ATI</u>	Date: <u>03/11/16</u>	Time: <u>16:20</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: _____