



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 3603 CHI Hgts-Glenwood Rd over Thorn Creek Office Phone Number, if available: _____

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

100 block of Chicago Heights-Glenwood Road (ISGS Site No. 2772V-2)

City: Glenwood State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.547614091 Longitude: -87.625571520
(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: 847-705-4122

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Email, if available: Irma.Romiti-Johnson@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 3603 CHI Hgts-Glenwood Rd over Thorn Cr

Latitude: 41.547614091 Longitude: -87.625571520

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 VL2-2 AND VL2-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2772V-2. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-157466-1
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200
Michael Castillo, P.G.

Printed Name:



Michael A. Castillo

8 March 2019

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Summary Table of ISGS Site No. 2772V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	VL2-2(0-6)-011419	VL2-2(6-12)-011419	VL2-2(6-12)-011419D	VL2-4(0-6)-011419	VL2-4(6-12)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	VL2-2	VL2-2	VL2-2	VL2-4	VL2-4	
Depth	0 - 6	6 - 12	6 - 12	0 - 6	6 - 12	
Lab Sample ID	500-157466-17	500-157466-18	500-157466-19	500-157466-5	500-157466-6	
ISGS Site No.	2772V-2	2772V-2	2772V-2	2772V-2	2772V-2	
Parameter						
Laboratory pH (s.u.)	8	7.7	7.6	8.7	7.8	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	32	ND	25000
Carbon disulfide	ND	ND	ND	2.8 J	ND	9000
Methyl ethyl ketone	ND	ND	ND	5.2	3.4 J	---
SVOCs (ug/kg)						
2-Methylnaphthalene	9.7 J	ND	ND	43 J	47 J	---
3 & 4 Methylphenol	ND	ND	ND	160 J	ND	---
Acenaphthene	ND	ND	ND	41	17 J	570000
Acenaphthylene	12 J	ND	ND	150	8.2 J	---
Anthracene	18 J	ND	ND	170	41	1.20E+07
Benzo(a)anthracene	79	ND	ND	520	87	900 / 1100 / 1800
Benzo(a)pyrene	110	ND	ND	560	83	90 / 1300 / 2100
Benzo(b)fluoranthene	170	ND	ND	810	130	900 / 1500 / 2100
Benzo(g,h,i)perylene	55	ND	ND	220	38 J	---
Benzo(k)fluoranthene	53	ND	ND	410	47	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	98 J	ND	46000
Chrysene	97	ND	ND	550	100	88000
Dibenzo(a,h)anthracene	36 J	ND	ND	84	10 J	90 / 200 / 420
Fluoranthene	160	ND	ND	960	260	3100000
Fluorene	ND	ND	ND	44	21 J	560000
Indeno(1,2,3-cd)pyrene	61	ND	ND	210	39	900 / 900 / 1600
Naphthalene, SVOC	18 J	ND	ND	47	22 J	1800
Phenanthrene	72	ND	ND	210	190	---
Pyrene	150	ND	ND	1100	220	2300000
Total Metals (mg/kg)						
Antimony, Total	0.41 J	0.48 J	0.45 J	0.28 J	0.29 J	5
Arsenic, Total	5	7.1	6.3	4.9	3.9	11.3 / 13
Barium, Total	47	47	33	34	40	1500
Beryllium, Total	0.47	0.54	0.5	0.69	0.45	22
Cadmium, Total	1.7	0.23 J	0.13 J	0.31 J	0.19 J	5.2
Calcium, Total	22000	1600	1400	53000	4300	---
Chromium, Total	26	13	14	11	12	21
Cobalt, Total	7.3	16 J	8.6 J	7.2	6.9	20
Copper, Total	27	12	11	63	11	2900
Iron, Total	11000	16000	16000	10000	12000	15000 / 15900
Lead, Total	33	16	11	92	14	107
Magnesium, Total	14000	2300	2300	24000	3000	325000
Manganese, Total	410	910 J	400 J	300	460	630 / 636
Mercury, Total	0.067	0.014 J	0.012 J	0.035	0.018	0.89
Nickel, Total	16	18	16	14	13	100
Potassium, Total	1400	1500	1500	1000	1300	---
Selenium, Total	ND	0.45 J	0.7	ND	ND	1.3
Silver, Total	2.7	3.5	3	1.7	2.6	4.4
Sodium, Total	150	200	220	500	290	---
Thallium, Total	1.3 *	2.2 *	2 *	0.71	1.6	2.6
Vanadium, Total	15	19	18	12	17	550
Zinc, Total	93	38	39	390	41	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.34 J	0.14 J	0.12 J	0.43 J	0.29 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.019	ND	0.0022 J	0.0052	0.0034 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	0.039	0.061	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	0.21 J	13	5
Lead, TCLP	ND	ND	ND	0.046	0.014	0.0075
Manganese, TCLP	0.74	0.066	0.079	4	11	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.016 J	ND	ND	0.032	0.048	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	0.66	5

Summary Table of ISGS Site No. 2772V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	VL2-2(0-6)-011419	VL2-2(6-12)-011419	VL2-2(6-12)-011419D	VL2-4(0-6)-011419	VL2-4(6-12)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	VL2-2	VL2-2	VL2-2	VL2-4	VL2-4	
Depth	0 - 6	6 - 12	6 - 12	0 - 6	6 - 12	
Lab Sample ID	500-157466-17	500-157466-18	500-157466-19	500-157466-5	500-157466-6	
ISGS Site No.	2772V-2	2772V-2	2772V-2	2772V-2	2772V-2	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.014 J	0.029 J	0.035 J	0.042 J	0.02 J	0.05
Barium, SPLP	0.2 J	0.29 J	0.34 J	0.38 J	0.27 J	2
Beryllium, SPLP	ND	ND	0.004	0.0048	ND	0.004
Cadmium, SPLP	0.0035 J	ND	ND	0.0021 J	ND	0.005
Chromium, SPLP	0.072	0.086	0.098	0.11	0.066	0.1
Cobalt, SPLP	ND	0.012 J	0.016 J	0.03	0.02 J	1
Copper, SPLP	0.063	0.063	0.072	0.11	0.059	0.65
Iron, SPLP	45	90	110	110	64	5
Lead, SPLP	0.049	0.03	0.034	0.32	0.042	0.0075
Manganese, SPLP	0.45	0.55	0.63	0.82	0.63	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.038	0.061	0.077	0.076	0.046	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	0.01 J	0.011 J	ND	0.05
Zinc, SPLP	0.23 J	0.31 J	0.23 J	0.45 J	0.28 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago Corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptable limits.

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: 500-157466-1
Client Project/Site: IDOT - Glenwood - WO 032

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

Attn: Mr. Andris Slesers



Authorized for release by:
1/24/2019 4:36:14 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.

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(0-6)-011419

Lab Sample ID: 500-157466-5

Date Collected: 01/14/19 11:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		18	7.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromomethane	<4.5 *		4.5	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Carbon disulfide	2.8 J		4.5	0.94	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chlorobenzene	<1.8		1.8	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloroethane	<4.5 *		4.5	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methyl Ethyl Ketone	5.2		4.5	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	01/15/19 17:48	01/18/19 13:22	1
Dibromofluoromethane	106		75 - 126	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	01/15/19 17:48	01/18/19 13:22	1
Toluene-d8 (Surr)	100		75 - 124	01/15/19 17:48	01/18/19 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(0-6)-011419

Lab Sample ID: 500-157466-5

Date Collected: 01/14/19 11:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Chlorophenol	<180	*	180	61	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Methylnaphthalene	43	J	72	6.6	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Methylphenol	<180		180	57	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
3 & 4 Methylphenol	160	J	180	59	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Acenaphthene	41		35	6.4	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Acenaphthylene	150		35	4.7	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Anthracene	170		35	6.0	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Benzo[a]anthracene	520		35	4.8	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Benzo[a]pyrene	560		35	6.9	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Benzo[b]fluoranthene	810		35	7.7	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Benzo[g,h,i]perylene	220		35	11	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Benzo[k]fluoranthene	410		35	11	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Bis(2-chloroethyl)ether	<180	*	180	53	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Bis(2-ethylhexyl) phthalate	98	J	180	65	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Carbazole	<180		180	89	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Chrysene	550		35	9.7	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Dibenz(a,h)anthracene	84		35	6.9	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Dibenzofuran	<180		180	42	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Fluoranthene	960		35	6.6	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Fluorene	44		35	5.0	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Hexachloroethane	<180		180	54	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(0-6)-011419

Lab Sample ID: 500-157466-5

Date Collected: 01/14/19 11:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	210		35	9.2	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Isophorone	<180		180	40	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Naphthalene	47		35	5.5	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Phenanthrene	210		35	5.0	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Phenol	<180 *		180	79	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1
Pyrene	1100		35	7.1	ug/Kg	☼	01/17/19 15:47	01/22/19 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	112		31 - 143	01/17/19 15:47	01/22/19 16:16	1
2-Fluorobiphenyl	104		43 - 145	01/17/19 15:47	01/22/19 16:16	1
2-Fluorophenol	85		31 - 166	01/17/19 15:47	01/22/19 16:16	1
Nitrobenzene-d5	90		37 - 147	01/17/19 15:47	01/22/19 16:16	1
Phenol-d5	89		30 - 153	01/17/19 15:47	01/22/19 16:16	1
Terphenyl-d14	163 X		42 - 157	01/17/19 15:47	01/22/19 16:16	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		01/21/19 09:31	01/21/19 21:47	1
Barium	0.43	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 21:47	1
Cadmium	0.0052		0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 21:47	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Cobalt	0.039		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Iron	0.21	J	0.40	0.20	mg/L		01/21/19 09:31	01/21/19 21:47	1
Lead	0.046		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 21:47	1
Manganese	4.0		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Nickel	0.032		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 21:47	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:47	1
Zinc	0.38	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Barium	0.38	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:00	1
Beryllium	0.0048		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:00	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:00	1
Chromium	0.11		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Cobalt	0.030		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Copper	0.11		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Iron	110		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:00	1
Lead	0.32		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:00	1
Manganese	0.82		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Nickel	0.076		0.025	0.010	mg/L		01/17/19 14:58	01/21/19 13:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(0-6)-011419

Lab Sample ID: 500-157466-5

Date Collected: 01/14/19 11:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.011	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:00	1
Zinc	0.45	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.0	0.20	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Arsenic	4.9		0.52	0.18	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Barium	34		0.52	0.059	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Beryllium	0.69		0.21	0.049	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Cadmium	0.31	B	0.10	0.019	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Calcium	53000	B	52	8.8	mg/Kg	☼	01/18/19 08:03	01/21/19 17:19	5
Chromium	11		0.52	0.26	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Cobalt	7.2		0.26	0.068	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Copper	63	B	0.52	0.15	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Iron	10000		10	5.4	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Lead	92		0.26	0.12	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Magnesium	24000		5.2	2.6	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Manganese	300		0.52	0.075	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Nickel	14		0.52	0.15	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Potassium	1000		26	9.2	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Silver	1.7		0.26	0.067	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Sodium	500		52	7.7	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Thallium	0.71		0.52	0.26	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Vanadium	12		0.26	0.061	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	1
Zinc	390		1.0	0.46	mg/Kg	☼	01/18/19 08:03	01/19/19 00:11	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		01/18/19 11:10	01/21/19 08:12	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		01/21/19 11:00	01/22/19 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		18	6.0	ug/Kg	☼	01/17/19 14:40	01/18/19 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU			01/21/19 16:43	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(6-12)-011419

Lab Sample ID: 500-157466-6

Date Collected: 01/14/19 11:55

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.7	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Bromomethane	<4.4 *		4.4	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Carbon disulfide	<4.4		4.4	0.92	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Chloroethane	<4.4 *		4.4	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Ethylbenzene	<1.8		1.8	0.85	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Methyl Ethyl Ketone	3.4 J		4.4	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1
Xylenes, Total	<3.5		3.5	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	01/15/19 17:48	01/18/19 13:48	1
Dibromofluoromethane	114		75 - 126	01/15/19 17:48	01/18/19 13:48	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	01/15/19 17:48	01/18/19 13:48	1
Toluene-d8 (Surr)	96		75 - 124	01/15/19 17:48	01/18/19 13:48	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	☼	01/17/19 15:47	01/18/19 16:14	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(6-12)-011419

Lab Sample ID: 500-157466-6

Date Collected: 01/14/19 11:55

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Chlorophenol	<200	*	200	67	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Methylnaphthalene	47	J	79	7.2	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Acenaphthene	17	J	39	7.0	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Acenaphthylene	8.2	J	39	5.1	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Anthracene	41		39	6.5	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Benzo[a]anthracene	87		39	5.2	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Benzo[a]pyrene	83		39	7.5	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Benzo[b]fluoranthene	130		39	8.4	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Benzo[g,h,i]perylene	38	J	39	13	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Benzo[k]fluoranthene	47		39	11	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Bis(2-chloroethyl)ether	<200	*	200	58	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Carbazole	<200		200	97	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Chrysene	100		39	11	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Dibenz(a,h)anthracene	10	J	39	7.5	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Fluoranthene	260		39	7.2	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Fluorene	21	J	39	5.5	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Hexachloroethane	<200		200	59	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(6-12)-011419

Lab Sample ID: 500-157466-6

Date Collected: 01/14/19 11:55

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	39		39	10	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Isophorone	<200		200	44	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Naphthalene	22	J	39	6.0	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Phenanthrene	190		39	5.4	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Phenol	<200	*	200	87	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1
Pyrene	220		39	7.7	ug/Kg	☼	01/17/19 15:47	01/18/19 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		31 - 143	01/17/19 15:47	01/18/19 16:14	1
2-Fluorobiphenyl	93		43 - 145	01/17/19 15:47	01/18/19 16:14	1
2-Fluorophenol	95		31 - 166	01/17/19 15:47	01/18/19 16:14	1
Nitrobenzene-d5	87		37 - 147	01/17/19 15:47	01/18/19 16:14	1
Phenol-d5	95		30 - 153	01/17/19 15:47	01/18/19 16:14	1
Terphenyl-d14	114		42 - 157	01/17/19 15:47	01/18/19 16:14	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		01/21/19 09:31	01/21/19 21:59	1
Barium	0.29	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 21:59	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Cobalt	0.061		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Copper	0.015	J B	0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Iron	13		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 21:59	1
Lead	0.014		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 21:59	1
Manganese	11		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Nickel	0.048		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 21:59	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:59	1
Zinc	0.66	B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 21:59	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		01/17/19 14:58	01/18/19 17:04	1
Barium	0.27	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:04	1
Chromium	0.066		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:04	1
Cobalt	0.020	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:04	1
Copper	0.059		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:04	1
Iron	64		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:04	1
Lead	0.042		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:04	1
Manganese	0.63		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:04	1
Nickel	0.046		0.025	0.010	mg/L		01/17/19 14:58	01/21/19 13:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-4(6-12)-011419

Lab Sample ID: 500-157466-6

Date Collected: 01/14/19 11:55

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:04	1
Zinc	0.28	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.23	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Arsenic	3.9		0.59	0.20	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Barium	40		0.59	0.067	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Beryllium	0.45		0.23	0.055	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Calcium	4300	B	12	2.0	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Chromium	12		0.59	0.29	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Cobalt	6.9		0.29	0.077	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Copper	11	B	0.59	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Iron	12000		12	6.1	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Lead	14		0.29	0.14	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Magnesium	3000		5.9	2.9	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Manganese	460		0.59	0.085	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Nickel	13		0.59	0.17	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Potassium	1300		29	10	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Silver	2.6		0.29	0.075	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Sodium	290		59	8.7	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Thallium	1.6		0.59	0.29	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Vanadium	17		0.29	0.069	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	1
Zinc	41		1.2	0.51	mg/Kg	☼	01/18/19 08:03	01/19/19 00:15	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		01/18/19 11:10	01/21/19 08:14	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		01/21/19 11:00	01/22/19 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	6.2	ug/Kg	☼	01/17/19 14:40	01/18/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			01/21/19 16:52	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(0-6)-011419

Lab Sample ID: 500-157466-17

Date Collected: 01/14/19 16:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.6	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Benzene	<2.0		2.0	0.50	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Bromodichloromethane	<2.0		2.0	0.40	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Bromoform	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Bromomethane	<4.9 *		4.9	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Carbon disulfide	<4.9		4.9	1.0	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Carbon tetrachloride	<2.0		2.0	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Chlorobenzene	<2.0		2.0	0.73	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Chloroethane	<4.9 *		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Chloroform	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Chloromethane	<4.9		4.9	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
cis-1,2-Dichloroethene	<2.0		2.0	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
cis-1,3-Dichloropropene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Dibromochloromethane	<2.0		2.0	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,1-Dichloroethane	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,2-Dichloroethane	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,1-Dichloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,2-Dichloropropane	<2.0		2.0	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,3-Dichloropropene, Total	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Ethylbenzene	<2.0		2.0	0.95	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
2-Hexanone	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Methylene Chloride	<4.9		4.9	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Methyl Ethyl Ketone	<4.9		4.9	2.2	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
methyl isobutyl ketone	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Methyl tert-butyl ether	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Styrene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Tetrachloroethene	<2.0		2.0	0.67	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Toluene	<2.0		2.0	0.50	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
trans-1,2-Dichloroethene	<2.0		2.0	0.88	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
trans-1,3-Dichloropropene	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,1,1-Trichloroethane	<2.0		2.0	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
1,1,2-Trichloroethane	<2.0		2.0	0.85	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Trichloroethene	<2.0		2.0	0.67	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Vinyl chloride	<2.0		2.0	0.87	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1
Xylenes, Total	<4.0		4.0	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	01/15/19 17:48	01/18/19 18:29	1
Dibromofluoromethane	115		75 - 126	01/15/19 17:48	01/18/19 18:29	1
1,2-Dichloroethane-d4 (Surr)	129		70 - 134	01/15/19 17:48	01/18/19 18:29	1
Toluene-d8 (Surr)	100		75 - 124	01/15/19 17:48	01/18/19 18:29	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	☼	01/17/19 15:47	01/22/19 15:49	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(0-6)-011419

Lab Sample ID: 500-157466-17

Date Collected: 01/14/19 16:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Chlorophenol	<190	*	190	63	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Methylnaphthalene	9.7	J	75	6.8	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Methylphenol	<190		190	59	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Acenaphthylene	12	J	37	4.9	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Anthracene	18	J	37	6.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Benzo[a]anthracene	79		37	5.0	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Benzo[a]pyrene	110		37	7.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Benzo[b]fluoranthene	170		37	8.0	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Benzo[g,h,i]perylene	55		37	12	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Benzo[k]fluoranthene	53		37	11	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Bis(2-chloroethyl)ether	<190	*	190	56	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Carbazole	<190		190	93	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Chrysene	97		37	10	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Dibenz(a,h)anthracene	36	J	37	7.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Dibenzofuran	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Fluoranthene	160		37	6.9	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Hexachloroethane	<190		190	56	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(0-6)-011419

Lab Sample ID: 500-157466-17

Date Collected: 01/14/19 16:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	61		37	9.6	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Isophorone	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Naphthalene	18	J	37	5.7	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Phenanthrene	72		37	5.2	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Phenol	<190	*	190	82	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Pyrene	150		37	7.4	ug/Kg	☼	01/17/19 15:47	01/22/19 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		31 - 143				01/17/19 15:47	01/22/19 15:49	1
2-Fluorobiphenyl	98		43 - 145				01/17/19 15:47	01/22/19 15:49	1
2-Fluorophenol	84		31 - 166				01/17/19 15:47	01/22/19 15:49	1
Nitrobenzene-d5	88		37 - 147				01/17/19 15:47	01/22/19 15:49	1
Phenol-d5	94		30 - 153				01/17/19 15:47	01/22/19 15:49	1
Terphenyl-d14	157		42 - 157				01/17/19 15:47	01/22/19 15:49	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		01/21/19 09:31	01/21/19 22:53	1
Barium	0.34	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 22:53	1
Cadmium	0.019		0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Copper	0.010	J B	0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 22:53	1
Manganese	0.74		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Nickel	0.016	J	0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 22:53	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:53	1
Zinc	0.38	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 22:53	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		01/17/19 14:58	01/18/19 17:55	1
Barium	0.20	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:55	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:55	1
Chromium	0.072		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Copper	0.063		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Iron	45		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:55	1
Lead	0.049		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:55	1
Manganese	0.45		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Nickel	0.038		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(0-6)-011419

Lab Sample ID: 500-157466-17

Date Collected: 01/14/19 16:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:55	1
Zinc	0.23	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.22	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Arsenic	5.0		0.56	0.19	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Barium	47		0.56	0.064	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Beryllium	0.47		0.22	0.053	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Cadmium	1.7	B	0.11	0.020	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Calcium	22000	B	11	1.9	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Chromium	26		0.56	0.28	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Cobalt	7.3		0.28	0.074	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Copper	27	B	0.56	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Iron	11000		11	5.8	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Lead	33		0.28	0.13	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Magnesium	14000		5.6	2.8	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Manganese	410		0.56	0.082	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Nickel	16		0.56	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Potassium	1400		28	10	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Silver	2.7		0.28	0.073	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Sodium	150		56	8.3	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Thallium	1.3	*	0.56	0.28	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Vanadium	15		0.28	0.066	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1
Zinc	93		1.1	0.49	mg/Kg	☼	01/18/19 08:03	01/19/19 01:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 08:43	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		01/21/19 11:00	01/22/19 12:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	67		18	5.9	ug/Kg	☼	01/17/19 14:40	01/18/19 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			01/21/19 16:53	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419

Lab Sample ID: 500-157466-18

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.4	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Bromomethane	<4.8 *		4.8	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Chloroethane	<4.8 *		4.8	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Chloroform	<1.9		1.9	0.67	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,2-Dichloropropane	<1.9		1.9	0.50	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,3-Dichloropropene, Total	<1.9		1.9	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Ethylbenzene	<1.9		1.9	0.92	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Methyl tert-butyl ether	<1.9		1.9	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Tetrachloroethene	<1.9		1.9	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Toluene	<1.9		1.9	0.49	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
trans-1,3-Dichloropropene	<1.9		1.9	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,1,1-Trichloroethane	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
1,1,2-Trichloroethane	<1.9		1.9	0.83	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Vinyl chloride	<1.9		1.9	0.85	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1
Xylenes, Total	<3.9		3.9	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	01/15/19 17:48	01/18/19 18:54	1
Dibromofluoromethane	119		75 - 126	01/15/19 17:48	01/18/19 18:54	1
1,2-Dichloroethane-d4 (Surr)	129		70 - 134	01/15/19 17:48	01/18/19 18:54	1
Toluene-d8 (Surr)	95		75 - 124	01/15/19 17:48	01/18/19 18:54	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	☼	01/17/19 15:47	01/18/19 14:08	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419

Lab Sample ID: 500-157466-18

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Chlorophenol	<200 *		200	67	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Bis(2-chloroethyl)ether	<200 *		200	59	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Carbazole	<200		200	98	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Chrysene	<39		39	11	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/17/19 15:47	01/18/19 14:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419

Lab Sample ID: 500-157466-18

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Isophorone	<200		200	44	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Naphthalene	<39		39	6.0	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Nitrobenzene	<39		39	9.8	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Pentachlorophenol	<790		790	630	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Phenanthrene	<39		39	5.5	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Phenol	<200 *		200	87	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1
Pyrene	<39		39	7.8	ug/Kg	*	01/17/19 15:47	01/18/19 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143	01/17/19 15:47	01/18/19 14:08	1
2-Fluorobiphenyl	96		43 - 145	01/17/19 15:47	01/18/19 14:08	1
2-Fluorophenol	128		31 - 166	01/17/19 15:47	01/18/19 14:08	1
Nitrobenzene-d5	109		37 - 147	01/17/19 15:47	01/18/19 14:08	1
Phenol-d5	115		30 - 153	01/17/19 15:47	01/18/19 14:08	1
Terphenyl-d14	119		42 - 157	01/17/19 15:47	01/18/19 14:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Barium	0.14	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 22:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 22:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 22:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 22:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 22:57	1
Manganese	0.066		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 22:57	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:57	1
Zinc	0.18	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.029	J	0.050	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Barium	0.29	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:59	1
Chromium	0.086		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Cobalt	0.012	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Copper	0.063		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Iron	90		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:59	1
Lead	0.030		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:59	1
Manganese	0.55		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Nickel	0.061		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419

Lab Sample ID: 500-157466-18

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

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		01/17/19 14:58	01/18/19 17:59	1
Zinc	0.31	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.21	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Arsenic	7.1		0.55	0.19	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Barium	47		0.55	0.063	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Beryllium	0.54		0.22	0.051	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Calcium	1600	B	11	1.9	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Chromium	13		0.55	0.27	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Cobalt	16		0.28	0.072	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Copper	12	B	0.55	0.15	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Iron	16000		11	5.7	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Lead	16		0.28	0.13	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Magnesium	2300		5.5	2.7	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Manganese	910		0.55	0.080	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Nickel	18		0.55	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Potassium	1500		28	9.7	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Selenium	0.45	J	0.55	0.32	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Silver	3.5		0.28	0.071	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Sodium	200		55	8.2	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Thallium	2.2	*	0.55	0.27	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Vanadium	19		0.28	0.065	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	1
Zinc	38		1.1	0.48	mg/Kg	☼	01/18/19 08:03	01/19/19 01:36	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		01/18/19 11:10	01/21/19 08:44	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		01/21/19 11:00	01/22/19 12:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	19	6.3	ug/Kg	☼	01/17/19 14:40	01/18/19 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.2	0.2	SU			01/21/19 16:53	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419D

Lab Sample ID: 500-157466-19

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.8	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Bromomethane	<5.1	*	5.1	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Chloroethane	<5.1	*	5.1	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Chloroform	<2.0		2.0	0.70	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Chloromethane	<5.1		5.1	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Ethylbenzene	<2.0		2.0	0.97	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Methyl Ethyl Ketone	<5.1		5.1	2.2	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
trans-1,2-Dichloroethene	<2.0		2.0	0.90	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
1,1,2-Trichloroethane	<2.0		2.0	0.87	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1
Xylenes, Total	<4.0		4.0	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	01/15/19 17:48	01/18/19 19:19	1
Dibromofluoromethane	113		75 - 126	01/15/19 17:48	01/18/19 19:19	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	01/15/19 17:48	01/18/19 19:19	1
Toluene-d8 (Surr)	98		75 - 124	01/15/19 17:48	01/18/19 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	<190		190	41	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419D

Lab Sample ID: 500-157466-19

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Chlorophenol	<190 *		190	64	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Bis(2-chloroethyl)ether	<190 *		190	57	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Carbazole	<190		190	94	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Chrysene	<37		37	10	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/17/19 15:47	01/18/19 14:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419D

Lab Sample ID: 500-157466-19

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Isophorone	<190		190	42	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Naphthalene	<37		37	5.8	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Nitrobenzene	<37		37	9.4	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Pentachlorophenol	<760		760	610	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Phenanthrene	<37		37	5.3	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Phenol	<190 *		190	84	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1
Pyrene	<37		37	7.5	ug/Kg	*	01/17/19 15:47	01/18/19 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		31 - 143	01/17/19 15:47	01/18/19 14:33	1
2-Fluorobiphenyl	87		43 - 145	01/17/19 15:47	01/18/19 14:33	1
2-Fluorophenol	97		31 - 166	01/17/19 15:47	01/18/19 14:33	1
Nitrobenzene-d5	109		37 - 147	01/17/19 15:47	01/18/19 14:33	1
Phenol-d5	105		30 - 153	01/17/19 15:47	01/18/19 14:33	1
Terphenyl-d14	113		42 - 157	01/17/19 15:47	01/18/19 14:33	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		01/21/19 09:31	01/21/19 23:01	1
Barium	0.12	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 23:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 23:01	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 23:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 23:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 23:01	1
Manganese	0.079		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 23:01	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 23:01	1
Zinc	<0.50		0.50	0.020	mg/L		01/21/19 09:31	01/21/19 23:01	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		01/17/19 14:58	01/18/19 18:03	1
Barium	0.34	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 18:03	1
Beryllium	0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 18:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 18:03	1
Chromium	0.098		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Cobalt	0.016	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Copper	0.072		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Iron	110		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 18:03	1
Lead	0.034		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 18:03	1
Manganese	0.63		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Nickel	0.077		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL2-2(6-12)-011419D

Lab Sample ID: 500-157466-19

Date Collected: 01/14/19 16:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.010	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 18:03	1
Zinc	0.23	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 18:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.22	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Arsenic	6.3		0.58	0.20	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Barium	33		0.58	0.066	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Beryllium	0.50		0.23	0.054	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Cadmium	0.13	B	0.12	0.021	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Calcium	1400	B	12	2.0	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Chromium	14		0.58	0.29	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Cobalt	8.6		0.29	0.076	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Copper	11	B	0.58	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Iron	16000		12	6.0	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Lead	11		0.29	0.13	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Magnesium	2300		5.8	2.9	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Manganese	400		0.58	0.084	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Nickel	16		0.58	0.17	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Potassium	1500		29	10	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Selenium	0.70		0.58	0.34	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Silver	3.0		0.29	0.075	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Sodium	220		58	8.6	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Thallium	2.0	*	0.58	0.29	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Vanadium	18		0.29	0.068	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	1
Zinc	39		1.2	0.51	mg/Kg	☼	01/18/19 08:03	01/19/19 01:39	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		01/18/19 11:10	01/21/19 08:46	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		01/21/19 11:00	01/22/19 12:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	18	5.9	ug/Kg	☼	01/17/19 14:40	01/18/19 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			01/21/19 16:53	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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
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.
*	LCS or LCSD 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

TestAmerica Chicago

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

1

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Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-157466 COC

Report To (optional)
Contact: Andrius Steskus
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 #: 500-157466
Chain of Custody Number: _____
Page 2 of 3
Temperature °C of Cooler: 39.38/41

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		Project Location/State		Lab Project #		Parameter						
Sampler		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	PCP	SPLOS	
1		CC-2(0-4)-011419	1.14.19	1055	6	S	X	X	X	X	X	X
2		CC-2(4-8)-011419	1.14.19	1100	6	S	X	X	X	X	X	X
3		CC-1(6-4)-011419	1.14.19	1105	6	S	X	X	X	X	X	X
4		VL5-1(0-3)-011419	1.14.19	1125	6	S	X	X	X	X	X	X
5		VL2-4(0-6)-011419	1.14.19	1150	6	S	X	X	X	X	X	X
6		VL2-4(6-12)-011419	1.14.19	1155	6	S	X	X	X	X	X	X
7		VL2-3(0-6)-011419	1.14.19	1215	6	S	X	X	X	X	X	X
8		VL2-3(6-12)-011419	1.14.19	1220	6	S	X	X	X	X	X	X
9		VL6-1(0-3)-011419	1.14.19	1225	6	S	X	X	X	X	X	X
10		VL3-4(0-6)-011419	1.14.19	1300	6	S	X	X	X	X	X	X

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ 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>Western</u> Date: <u>1.14.19</u> Time: <u>1900</u>	Received By: <u>[Signature]</u> Company: <u>TestAmerica</u> Date: <u>1-14-19</u> Time: <u>1900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: _____
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: Andris Stiegers
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-157466
Chain of Custody Number: _____
Page 3 of 3
Temperature °C of Cooler: 39.38, 41

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>Weston</u>		<u>02056.014.032.0020</u>										
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
<u>1207-032</u>												
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix		
<u>Orenwood - IL</u>		<u>B. WRISHT</u>										
Sampler		Lab Project #		Date		Time		# of Containers		Matrix		
<u>A. Hord</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
<u>11</u>		<u>VL3-4(0-6)-011419D</u>	<u>1.14.19</u>	<u>1300</u>	<u>6</u>	<u>S</u>	<u>VOL</u>	<u>SOL</u>	<u>Metals</u>	<u>TURB/SPL</u>	<u>pH</u>	
<u>12</u>		<u>VL3-4(6-12)-011419</u>	<u>1.14.19</u>	<u>1305</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>13</u>		<u>VL3-3(0-2)-011419</u>	<u>1.14.19</u>	<u>1355</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>14</u>		<u>VL3-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1440</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>15</u>		<u>VL3-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1500</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>16</u>		<u>VL3-2(6-11.5)-011419</u>	<u>1.14.19</u>	<u>1505</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>17</u>		<u>VL2-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1600</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>18</u>		<u>VL2-2(6-11)-011419</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>19</u>		<u>VL2-2(6-12)-011419D</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	
<u>20</u>		<u>VL2-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1610</u>	<u>6</u>	<u>S</u>	X	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ 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>A. Hord</u>	Company <u>Weston</u>	Date <u>1.14.19</u>	Time <u>1900</u>	Received By <u>Galina</u>	Company <u>TestAmerica</u>	Date <u>1-14-19</u>	Time <u>1900</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
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 3603 CHI Hgts-Glenwood Rd over Thorn Creek Office Phone Number, if available: _____

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

100 block of Chicago Heights-Glenwood Road (ISGS Site No. 2772V-3)

City: Glenwood State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.547448513 Longitude: -87.625359617
(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: 847-705-4122

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Email, if available: Irma.Romiti-Johnson@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 3603 CHI Hgts-Glenwood Rd over Thorn Cr.

Latitude: 41.547448513 Longitude: -87.625359617

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 VL3-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2772V-3. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-157466-1
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza, Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

Michael Castillo, P.G.
 Printed Name:

Michael A Castillo

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

8 March 2019

Date:



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

Summary Table of ISGS Site No. 2772V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	VL3-2(0-6)-011419	VL3-2(6-11.5)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	
Location ID	VL3-2	VL3-2	
Depth	0 - 6	6 - 11.5	
Lab Sample ID	500-157466-15	500-157466-16	
ISGS Site No.	2772V-3	2772V-3	
Parameter			
Laboratory pH (s.u.)	8	8.5	<6.25,>9.0
VOCs (ug/kg)			
SVOCs (ug/kg)			
2-Methylnaphthalene	15 J	8.7 J	---
Acenaphthene	95	ND	570000
Acenaphthylene	15 J	27 J	---
Anthracene	40	49	1.20E+07
Benzo(a)anthracene	280	320	900 / 1100 / 1800
Benzo(a)pyrene	450	360	90 / 1300 / 2100
Benzo(b)fluoranthene	520	510	900 / 1500 / 2100
Benzo(g,h,i)perylene	340	180	---
Benzo(k)fluoranthene	210	200	9000
bis(2-Ethylhexyl)phthalate	ND	90 J	46000
Chrysene	340	380	88000
Dibenzo(a,h)anthracene	85	53	90 / 200 / 420
Fluoranthene	530	770	3100000
Fluorene	14 J	9.4 J	560000
Indeno(1,2,3-cd)pyrene	300	160	900 / 900 / 1600
Naphthalene, SVOC	16 J	7.4 J	1800
Phenanthrene	170	210	---
Pyrene	440	600	2300000
Total Metals (mg/kg)			
Antimony, Total	0.38 J	0.35 J	5
Arsenic, Total	4.5	5.3	11.3 / 13
Barium, Total	42	40	1500
Beryllium, Total	0.43	0.5	22
Cadmium, Total	0.37 J	0.39 J	5.2
Calcium, Total	75000	54000	---
Chromium, Total	11	15	21
Cobalt, Total	5.7	7.5	20
Copper, Total	17	24	2900
Iron, Total	12000	12000	15000 / 15900
Lead, Total	38	44	107
Magnesium, Total	43000	25000	325000
Manganese, Total	310	310	630 / 636
Mercury, Total	0.039	0.14	0.89
Nickel, Total	12	18	100
Potassium, Total	1400	2300	---
Silver, Total	1.8	2.2	4.4
Sodium, Total	120	250	---
Thallium, Total	0.67 *	0.92 *	2.6
Vanadium, Total	13	15	550
Zinc, Total	89	82	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.38 J	0.33 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0041 J	0.0068	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	0.028	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1	2.9	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	0.041	0.1
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5

Summary Table of ISGS Site No. 2772V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	VL3-2(0-6)-011419	VL3-2(6-11.5)-011419	Soil Reference Concentrations^A
Sample Date	1/14/2019	1/14/2019	
Location ID	VL3-2	VL3-2	
Depth	0 - 6	6 - 11.5	
Lab Sample ID	500-157466-15	500-157466-16	
ISGS Site No.	2772V-3	2772V-3	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.014 J	0.021 J	0.05
Barium, SPLP	0.17 J	0.18 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.04	0.08	0.1
Cobalt, SPLP	ND	0.011 J	1
Copper, SPLP	0.035	0.07	0.65
Iron, SPLP	29	47	5
Lead, SPLP	0.069	0.11	0.0075
Manganese, SPLP	0.27	0.32	0.15
Mercury, SPLP	ND	0.00031	0.002
Nickel, SPLP	0.021 J	0.043	0.1
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.19 J	0.35 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago Corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptable limits.

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: 500-157466-1
Client Project/Site: IDOT - Glenwood - WO 032

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

Attn: Mr. Andris Slesers



Authorized for release by:
1/24/2019 4:36:14 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 - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(0-6)-011419

Lab Sample ID: 500-157466-15

Date Collected: 01/14/19 15:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.1	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Benzene	<1.9		1.9	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Bromoform	<1.9		1.9	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Bromomethane	<4.7 *		4.7	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Carbon disulfide	<4.7		4.7	0.97	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
cis-1,2-Dichloroethene	<1.9		1.9	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
cis-1,3-Dichloropropene	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,1-Dichloroethene	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,2-Dichloropropane	<1.9		1.9	0.48	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,3-Dichloropropene, Total	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Ethylbenzene	<1.9		1.9	0.89	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Methylene Chloride	<4.7		4.7	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Styrene	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Tetrachloroethene	<1.9		1.9	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
trans-1,2-Dichloroethene	<1.9		1.9	0.82	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
trans-1,3-Dichloropropene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,1,1-Trichloroethane	<1.9		1.9	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
1,1,2-Trichloroethane	<1.9		1.9	0.80	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Trichloroethene	<1.9		1.9	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Vinyl chloride	<1.9		1.9	0.82	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1
Xylenes, Total	<3.7		3.7	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	01/15/19 17:48	01/18/19 17:38	1
Dibromofluoromethane	111		75 - 126	01/15/19 17:48	01/18/19 17:38	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	01/15/19 17:48	01/18/19 17:38	1
Toluene-d8 (Surr)	98		75 - 124	01/15/19 17:48	01/18/19 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(0-6)-011419

Lab Sample ID: 500-157466-15

Date Collected: 01/14/19 15:00

Matrix: Solid

Date Received: 01/14/19 19:00

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	<380		380	88	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Chlorophenol	<190	*	190	65	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Methylnaphthalene	15	J	77	7.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Acenaphthene	95		38	6.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Acenaphthylene	15	J	38	5.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Anthracene	40		38	6.4	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Benzo[a]anthracene	280		38	5.2	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Benzo[a]pyrene	450		38	7.4	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Benzo[b]fluoranthene	520		38	8.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Benzo[g,h,i]perylene	340		38	12	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Benzo[k]fluoranthene	210		38	11	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Bis(2-chloroethyl)ether	<190	*	190	57	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Carbazole	<190		190	96	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Chrysene	340		38	10	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Dibenz(a,h)anthracene	85		38	7.4	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Fluoranthene	530		38	7.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Fluorene	14	J	38	5.4	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(0-6)-011419

Lab Sample ID: 500-157466-15

Date Collected: 01/14/19 15:00

Matrix: Solid

Date Received: 01/14/19 19:00

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	300		38	9.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Isophorone	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Naphthalene	16	J	38	5.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Phenanthrene	170		38	5.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Phenol	<190	*	190	85	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1
Pyrene	440		38	7.6	ug/Kg	☼	01/17/19 15:47	01/22/19 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	104		31 - 143	01/17/19 15:47	01/22/19 14:01	1
2-Fluorobiphenyl	98		43 - 145	01/17/19 15:47	01/22/19 14:01	1
2-Fluorophenol	100		31 - 166	01/17/19 15:47	01/22/19 14:01	1
Nitrobenzene-d5	89		37 - 147	01/17/19 15:47	01/22/19 14:01	1
Phenol-d5	120		30 - 153	01/17/19 15:47	01/22/19 14:01	1
Terphenyl-d14	137		42 - 157	01/17/19 15:47	01/22/19 14:01	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		01/21/19 09:31	01/21/19 22:36	1
Barium	0.38	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 22:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 22:36	1
Cadmium	0.0041	J	0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 22:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 22:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 22:36	1
Manganese	1.0		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 22:36	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:36	1
Zinc	0.11	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 22:36	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		01/17/19 14:58	01/18/19 17:47	1
Barium	0.17	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:47	1
Chromium	0.040		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Copper	0.035		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Iron	29		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:47	1
Lead	0.069		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:47	1
Manganese	0.27		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Nickel	0.021	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(0-6)-011419

Lab Sample ID: 500-157466-15

Date Collected: 01/14/19 15:00

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:47	1
Zinc	0.19	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.21	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Arsenic	4.5		0.55	0.19	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Barium	42		0.55	0.063	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Beryllium	0.43		0.22	0.052	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Cadmium	0.37	B	0.11	0.020	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Calcium	75000	B	55	9.3	mg/Kg	☼	01/18/19 08:03	01/21/19 17:38	5
Chromium	11		0.55	0.27	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Cobalt	5.7		0.28	0.072	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Copper	17	B	0.55	0.15	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Iron	12000		55	29	mg/Kg	☼	01/18/19 08:03	01/21/19 17:38	5
Lead	38		0.28	0.13	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Magnesium	43000		28	14	mg/Kg	☼	01/18/19 08:03	01/21/19 17:38	5
Manganese	310		0.55	0.080	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Nickel	12		0.55	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Potassium	1400		28	9.8	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Silver	1.8		0.28	0.071	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Sodium	120		55	8.2	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Thallium	0.67	*	0.55	0.28	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Vanadium	13		0.28	0.065	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	1
Zinc	89		1.1	0.48	mg/Kg	☼	01/18/19 08:03	01/19/19 01:23	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		01/18/19 11:10	01/21/19 08:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	F1	0.20	0.20	ug/L		01/21/19 11:00	01/22/19 11:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		18	5.9	ug/Kg	☼	01/17/19 14:40	01/18/19 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			01/21/19 16:53	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(6-11.5)-011419

Lab Sample ID: 500-157466-16

Date Collected: 01/14/19 15:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.3	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Bromomethane	<4.7 *		4.7	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Carbon disulfide	<4.7		4.7	0.99	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Ethylbenzene	<1.9		1.9	0.91	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	01/15/19 17:48	01/18/19 18:03	1
Dibromofluoromethane	113		75 - 126	01/15/19 17:48	01/18/19 18:03	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	01/15/19 17:48	01/18/19 18:03	1
Toluene-d8 (Surr)	99		75 - 124	01/15/19 17:48	01/18/19 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(6-11.5)-011419

Lab Sample ID: 500-157466-16

Date Collected: 01/14/19 15:05

Matrix: Solid

Date Received: 01/14/19 19:00

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	<380		380	86	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Chlorophenol	<190	*	190	64	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Methylnaphthalene	8.7	J	76	7.0	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Acenaphthylene	27	J	38	5.0	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Anthracene	49		38	6.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Benzo[a]anthracene	320		38	5.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Benzo[a]pyrene	360		38	7.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Benzo[b]fluoranthene	510		38	8.2	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Benzo[g,h,i]perylene	180		38	12	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Benzo[k]fluoranthene	200		38	11	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Bis(2-chloroethyl)ether	<190	*	190	57	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Bis(2-ethylhexyl) phthalate	90	J	190	69	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Carbazole	<190		190	94	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Chrysene	380		38	10	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Dibenz(a,h)anthracene	53		38	7.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Fluoranthene	770		38	7.0	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Fluorene	9.4	J	38	5.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(6-11.5)-011419

Lab Sample ID: 500-157466-16

Date Collected: 01/14/19 15:05

Matrix: Solid

Date Received: 01/14/19 19:00

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	160		38	9.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Isophorone	<190		190	42	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Naphthalene	7.4	J	38	5.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Phenanthrene	210		38	5.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Phenol	<190	*	190	84	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1
Pyrene	600		38	7.5	ug/Kg	☼	01/17/19 15:47	01/22/19 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		31 - 143	01/17/19 15:47	01/22/19 14:28	1
2-Fluorobiphenyl	86		43 - 145	01/17/19 15:47	01/22/19 14:28	1
2-Fluorophenol	72		31 - 166	01/17/19 15:47	01/22/19 14:28	1
Nitrobenzene-d5	72		37 - 147	01/17/19 15:47	01/22/19 14:28	1
Phenol-d5	78		30 - 153	01/17/19 15:47	01/22/19 14:28	1
Terphenyl-d14	114		42 - 157	01/17/19 15:47	01/22/19 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		01/21/19 09:31	01/21/19 22:49	1
Barium	0.33	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 22:49	1
Cadmium	0.0068		0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 22:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Cobalt	0.028		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 22:49	1
Manganese	2.9		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Nickel	0.041		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 22:49	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 22:49	1
Zinc	0.49	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 22:49	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		01/17/19 14:58	01/18/19 17:51	1
Barium	0.18	J	0.50	0.050	mg/L		01/17/19 14:58	01/18/19 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 17:51	1
Chromium	0.080		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:51	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:51	1
Copper	0.070		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:51	1
Iron	47		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 17:51	1
Lead	0.11		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 17:51	1
Manganese	0.32		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:51	1
Nickel	0.043		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 17:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: VL3-2(6-11.5)-011419

Lab Sample ID: 500-157466-16

Date Collected: 01/14/19 15:05

Matrix: Solid

Date Received: 01/14/19 19:00

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		01/17/19 14:58	01/18/19 17:51	1
Zinc	0.35	J	0.50	0.020	mg/L		01/17/19 14:58	01/18/19 17:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.1	0.21	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Arsenic	5.3		0.54	0.18	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Barium	40		0.54	0.061	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Beryllium	0.50		0.22	0.050	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Cadmium	0.39	B	0.11	0.019	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Calcium	54000	B	54	9.1	mg/Kg	☼	01/18/19 08:03	01/21/19 17:42	5
Chromium	15		0.54	0.27	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Cobalt	7.5		0.27	0.071	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Copper	24	B	0.54	0.15	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Iron	12000		11	5.6	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Lead	44		0.27	0.12	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Magnesium	25000		5.4	2.7	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Manganese	310		0.54	0.078	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Nickel	18		0.54	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Potassium	2300		27	9.5	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Silver	2.2		0.27	0.069	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Sodium	250		54	8.0	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Thallium	0.92	*	0.54	0.27	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Vanadium	15		0.27	0.064	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	1
Zinc	82		1.1	0.47	mg/Kg	☼	01/18/19 08:03	01/19/19 01:28	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		01/18/19 11:10	01/21/19 08:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.20	0.20	ug/L		01/21/19 11:00	01/22/19 12:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	140		19	6.3	ug/Kg	☼	01/17/19 14:40	01/18/19 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			01/21/19 16:53	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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
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.
*	LCS or LCSD 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

TestAmerica Chicago

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

1

2

3

4

5

6

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12

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14

15

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-157466 COC

Report To (optional)
Contact: Andrius Steskus
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 #: 500-157466
Chain of Custody Number: _____
Page 2 of 3
Temperature °C of Cooler: 39.38/41

Client		Client Project #		Preservative								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter								Comments		
Project Location/State		Lab Project #										
Sampler		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	PCP	SPLOS	PH
1		CC-2(0-4)-011419	1.14.19	1055	6	S	X	X	X	X	X	X
2		CC-2(4-8)-011419	1.14.19	1100	6	S	X	X	X	X	X	X
3		CC-1(6-4)-011419	1.14.19	1105	6	S	X	X	X	X	X	X
4		VL5-1(0-3)-011419	1.14.19	1125	6	S	X	X	X	X	X	X
5		VL2-4(0-6)-011419	1.14.19	1150	6	S	X	X	X	X	X	X
6		VL2-4(6-12)-011419	1.14.19	1155	6	S	X	X	X	X	X	X
7		VL2-3(0-6)-011419	1.14.19	1215	6	S	X	X	X	X	X	X
8		VL2-3(6-12)-011419	1.14.19	1220	6	S	X	X	X	X	X	X
9		VL6-1(0-3)-011419	1.14.19	1225	6	S	X	X	X	X	X	X
10		VL3-4(0-6)-011419	1.14.19	1300	6	S	X	X	X	X	X	X

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ 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>Western</u> Date: <u>1.14.19</u> Time: <u>1900</u>	Received By: <u>[Signature]</u> Company: <u>TestAmerica</u> Date: <u>1-14-19</u> Time: <u>1900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: _____
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: Andris Stiegers
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-157466
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 39, 38, 41

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>		<u>02056.014.032.0020</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>1207-032</u>											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
<u>Orenwood - IL</u>		<u>B. WRISHT</u>									
Sampler		Lab Project #		Date		Time		# of Containers		Matrix	
<u>A. Hord</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOL	SOL	Metals	TURB/SPL	pH
<u>11</u>		<u>VL3-4(0-6)-011419D</u>	<u>1.14.19</u>	<u>1300</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>VL3-4(6-12)-011419</u>	<u>1.14.19</u>	<u>1305</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>13</u>		<u>VL3-3(0-2)-011419</u>	<u>1.14.19</u>	<u>1355</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>14</u>		<u>VL3-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1440</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>15</u>		<u>VL3-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1500</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>16</u>		<u>VL3-2(6-11.5)-011419</u>	<u>1.14.19</u>	<u>1505</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>17</u>		<u>VL2-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1600</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>18</u>		<u>VL2-2(6-11)-011419</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>19</u>		<u>VL2-2(6-12)-011419D</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>20</u>		<u>VL2-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1610</u>	<u>6</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 ___ 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>A. Hord</u>	Company <u>Weston</u>	Date <u>1.14.19</u>	Time <u>1900</u>	Received By <u>Galina</u>	Company <u>TestAmerica</u>	Date <u>1-14-19</u>	Time <u>1900</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: _____
 Hand Delivered: F

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 3603 CHI Hgts-Glenwood Rd over Thorn Creek Office Phone Number, if available: _____

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

100 block of Chicago Heights-Glenwood Road (ISGS Site No. 2772V-9)

City: Glenwood State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.547864720 Longitude: -87.622495856
(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: 847-705-4122

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Email, if available: Irma.Romiti-Johnson@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 3603 CHI Hgts-Glenwood Rd over Thorn Cr

Latitude: 41.547864720 Longitude: -87.622495856

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 CC-1, CC-3, CC-4, CC-6, AND CC-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2772V-9. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-157465-1 and JOB ID: 500-157466-1
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza, Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

Michael Castillo, P.G.
 Printed Name:

Michael A Castillo
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

8 March 2019
 Date:



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

Summary Table of ISGS Site No. 2772V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	CC-1(0-4)-011419	CC-3(0-4)-011419	CC-3(4-8)-011419	CC-4(0-4)-011419	CC-6(0-4)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	CC-1	CC-3	CC-3	CC-4	CC-6	
Depth	0 - 4	0 - 4	4 - 8	0 - 4	0 - 4	
Lab Sample ID	500-157466-3	500-157465-9	500-157465-10	500-157465-8	500-157465-4	
ISGS Site No.	2772V-7	2772V-7	2772V-7	2772V-7	2772V-7	
Parameter						
Laboratory pH (s.u.)	8.6	8.2	7.8	8.6	8.5	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	60	56 J	ND	ND	25000
Methyl ethyl ketone	ND	13	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	17 J	8.8 J	ND	15 J	7.8 J	---
Acenaphthene	9.5 J	ND	ND	15 J	11 J	570000
Acenaphthylene	12 J	9.4 J	ND	21 J	12 J	---
Anthracene	37	11 J	ND	25 J	14 J	1.20E+07
Benzo(a)anthracene	130	33 J	ND	97	25 J	900 / 1100 / 1800
Benzo(a)pyrene	140	39	ND	140	37 J	90 / 1300 / 2100
Benzo(b)fluoranthene	200	69	ND	250	78	900 / 1500 / 2100
Benzo(g,h,i)perylene	67	30 J	ND	76	46	---
Benzo(k)fluoranthene	62	18 J	ND	73	19 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	73 J	88 J	ND	46000
Chrysene	150	51	ND	140	47	88000
Dibenzo(a,h)anthracene	38	7.6 J	ND	23 J	9.9 J	90 / 200 / 420
Fluoranthene	230	59	ND	200	61	3100000
Fluorene	12 J	ND	ND	14 J	9.7 J	560000
Indeno(1,2,3-cd)pyrene	74	25 J	ND	55	23 J	900 / 900 / 1600
Naphthalene, SVOC	14 J	7.6 J	ND	12 J	9.8 J	1800
Phenanthrene	140	42	ND	100	35 J	---
Pyrene	210	58	ND	210	62	2300000
Total Metals (mg/kg)						
Antimony, Total	0.32 J	0.4 J	0.24 J	0.29 J	0.43 J	5
Arsenic, Total	7.2	7.5	5.1	5.4 J	7.8	11.3 / 13
Barium, Total	49	35	27	28	32	1500
Beryllium, Total	0.64	0.54	0.32	0.36	0.47	22
Cadmium, Total	0.26 J	0.28 J	0.12 J	0.35 J	0.18 J	5.2
Calcium, Total	26000	8900	550	10000 J	4000	---
Chromium, Total	15	12	9.6	10	12	21
Cobalt, Total	12	9.3	5.5	5.4	7.2	20
Copper, Total	21	15	12	14 J	19	2900
Iron, Total	16000	13000	12000	11000	13000	15000 / 15900
Lead, Total	44	56	6.6	74	31	107
Magnesium, Total	16000	5400	1100	6600	3400	325000
Manganese, Total	410	270	180	180	220	630 / 636
Mercury, Total	0.026	0.0082 J	ND	0.0082 J	0.03 J	0.89
Nickel, Total	24	14	14	9.9	13	100
Potassium, Total	2100	1300	1000	1000 J	1500	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	3.3	2.6	2.5	1.8	2.5	4.4
Sodium, Total	1000	860	520	320	500	---
Thallium, Total	2	1.5	1.4	0.78	1.4	2.6
Vanadium, Total	21	16	15	13	18	550
Zinc, Total	71	110	46	86	57	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.47 J	0.4 J	0.26 J	0.34 J	0.37 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0046 J	0.0052	ND	0.0069	0.0056	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.03	0.079	ND	ND	ND	1
Copper, TCLP	ND	0.019 J	ND	ND	0.043	0.65
Iron, TCLP	ND	2.8	ND	ND	ND	5
Lead, TCLP	ND	0.057	ND	0.019	0.013	0.0075
Manganese, TCLP	3.7	9.4	0.077	0.64	0.61	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.028	0.029 J	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	0.7	ND	5

Summary Table of ISGS Site No. 2772V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	CC-1(0-4)-011419	CC-3(0-4)-011419	CC-3(4-8)-011419	CC-4(0-4)-011419	CC-6(0-4)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	CC-1	CC-3	CC-3	CC-4	CC-6	
Depth	0 - 4	0 - 4	4 - 8	0 - 4	0 - 4	
Lab Sample ID	500-157466-3	500-157465-9	500-157465-10	500-157465-8	500-157465-4	
ISGS Site No.	2772V-7	2772V-7	2772V-7	2772V-7	2772V-7	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.067	0.1	0.067	0.044 J	0.11	0.05
Barium, SPLP	0.59	0.54	0.49 J	0.31 J	0.52	2
Beryllium, SPLP	0.008	0.0073	0.0056	ND	0.0066	0.004
Cadmium, SPLP	ND	ND	ND	0.0025 J	0.0028 J	0.005
Chromium, SPLP	0.18	0.15	0.16	0.095	0.17	0.1
Cobalt, SPLP	0.052	0.091	0.043	0.028	0.062	1
Copper, SPLP	0.22	0.19	0.18	0.11	0.23	0.65
Iron, SPLP	190	180	160	87	180	5
Lead, SPLP	0.25	0.3	0.072	0.42	0.42	0.0075
Manganese, SPLP	1.2	1.9	1	0.79	1.4	0.15
Mercury, SPLP	ND	0.00026	0.00023	0.00027	ND	0.002
Nickel, SPLP	0.2	0.11	0.072 J	0.073	0.15	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Silver, SPLP	0.018 J	0.021 J	0.022 J	ND	0.018 J	0.05
Zinc, SPLP	0.67	0.6	0.77	0.79	1.1	5

Summary Table of ISGS Site No. 2772V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	CC-6(4-8)-011419	CC-7(0-4)-011419	CC-7(0-4)-011419D	CC-7(4-8)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	CC-6	CC-7	CC-7	CC-7	
Depth	4 - 8	0 - 4	0 - 4	4 - 8	
Lab Sample ID	500-157465-5	500-157465-1	500-157465-2	500-157465-3	
ISGS Site No.	2772V-7	2772V-7	2772V-7	2772V-7	
Parameter					
Laboratory pH (s.u.)	8.1	7.9	7.8	7.6	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	160 J	74 J	ND	25000
Methyl ethyl ketone	ND	26 J	14 J	ND	---
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	11 J	7.4 J	ND	---
Acenaphthene	ND	12 J	11 J	ND	570000
Acenaphthylene	ND	17 J	14 J	ND	---
Anthracene	ND	18 J	14 J	ND	1.20E+07
Benzo(a)anthracene	ND	42	23 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	55	35 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	110	62	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	63	49	ND	---
Benzo(k)fluoranthene	ND	35 J	15 J	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Chrysene	ND	73	39	ND	88000
Dibenzo(a,h)anthracene	ND	17 J	7.8 J	ND	90 / 200 / 420
Fluoranthene	ND	85	48	9.2 J	3100000
Fluorene	ND	12 J	10 J	ND	560000
Indeno(1,2,3-cd)pyrene	ND	46	27 J	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	12 J	9.2 J	ND	1800
Phenanthrene	ND	50	30 J	ND	---
Pyrene	ND	84	52	ND	2300000
Total Metals (mg/kg)					
Antimony, Total	0.4 J	0.53 J	0.23 J	0.3 J	5
Arsenic, Total	5.8	11 J	5.5 J	4.4	11.3 / 13
Barium, Total	25	44	27	23	1500
Beryllium, Total	0.38	0.66	0.42	0.42	22
Cadmium, Total	ND	0.17 J	0.13 J	ND	5.2
Calcium, Total	550	3900	3800	570	---
Chromium, Total	9.4	20	14	11	21
Cobalt, Total	5.5	6.3	4.6	9.1	20
Copper, Total	11	16	10	9.5	2900
Iron, Total	12000	23000	14000	11000	15000 / 15900
Lead, Total	7	28	25	7.7	107
Magnesium, Total	1400	4700	3800	1700	325000
Manganese, Total	180	140	110	230	630 / 636
Mercury, Total	ND	0.0098 J	ND	ND	0.89
Nickel, Total	14	14	9.5	11	100
Potassium, Total	1400	2300	1500	1300	---
Selenium, Total	ND	0.7	0.36 J	ND	1.3
Silver, Total	2.4	2.4	2	2.2	4.4
Sodium, Total	440	1800	1300	1000	---
Thallium, Total	1.3	1.5	1.2	1.3	2.6
Vanadium, Total	16	27	19	16	550
Zinc, Total	41	67	46	38	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.2 J	0.33 J	0.27 J	0.15 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	0.0045 J	0.0038 J	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	0.011 J	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	0.26 J	0.25 J	ND	5
Lead, TCLP	ND	0.039	0.022	ND	0.0075
Manganese, TCLP	0.061	2.2	1.7	0.061	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	5

Summary Table of ISGS Site No. 2772V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3603: Chicago Heights-Glenwood Road over Thorn Creek
Glenwood, Cook County, Illinois

Field Sample ID	CC-6(4-8)-011419	CC-7(0-4)-011419	CC-7(0-4)-011419D	CC-7(4-8)-011419	Soil Reference Concentrations ^A
Sample Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019	
Location ID	CC-6	CC-7	CC-7	CC-7	
Depth	4 - 8	0 - 4	0 - 4	4 - 8	
Lab Sample ID	500-157465-5	500-157465-1	500-157465-2	500-157465-3	
ISGS Site No.	2772V-7	2772V-7	2772V-7	2772V-7	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.12	0.12	0.11	0.076	0.05
Barium, SPLP	0.42 J	0.6	0.52	0.39 J	2
Beryllium, SPLP	0.0063	0.009	0.008	0.0064	0.004
Cadmium, SPLP	ND	0.0021 J	ND	ND	0.005
Chromium, SPLP	0.13	0.26	0.23	0.15	0.1
Cobalt, SPLP	0.066	0.063	0.057	0.07	1
Copper, SPLP	0.2	0.2	0.18	0.18	0.65
Iron, SPLP	210	300	260	180	5
Lead, SPLP	0.096	0.5 J	0.25 J	0.09	0.0075
Manganese, SPLP	2.1	1.4	1.1	2	0.15
Mercury, SPLP	0.00025	0.0004	0.00036	0.00028	0.002
Nickel, SPLP	0.23	0.14	0.13	0.14	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	0.027	0.015 J	0.014 J	0.019 J	0.05
Zinc, SPLP	0.6	0.75	0.68	0.52	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago Corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

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: 500-157465-1

Client Project/Site: IDOT - Glenwood - WO 032

Revision: 1

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. Andris Slesers



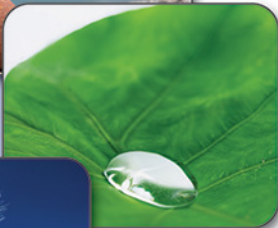
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1/29/2019 9:23:10 AM

Richard Wright, Senior Project Manager

(708)534-5200

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

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

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419

Lab Sample ID: 500-157465-1

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	160		20	8.6	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Benzene	<2.0		2.0	0.50	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Bromodichloromethane	<2.0		2.0	0.40	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Bromoform	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Bromomethane	<4.9 *		4.9	1.9	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Carbon disulfide	<4.9		4.9	1.0	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Carbon tetrachloride	<2.0		2.0	0.57	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Chlorobenzene	<2.0		2.0	0.73	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Chloroethane	<4.9 *		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Chloroform	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Chloromethane	<4.9		4.9	2.0	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
cis-1,2-Dichloroethene	<2.0		2.0	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
cis-1,3-Dichloropropene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Dibromochloromethane	<2.0		2.0	0.65	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,1-Dichloroethane	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,2-Dichloroethane	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,1-Dichloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,2-Dichloropropane	<2.0		2.0	0.51	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,3-Dichloropropene, Total	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Ethylbenzene	<2.0		2.0	0.95	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
2-Hexanone	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Methylene Chloride	<4.9		4.9	2.0	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Methyl Ethyl Ketone	26		4.9	2.2	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
methyl isobutyl ketone	<4.9		4.9	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Methyl tert-butyl ether	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Styrene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.63	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Tetrachloroethene	<2.0		2.0	0.67	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Toluene	<2.0		2.0	0.50	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
trans-1,2-Dichloroethene	<2.0		2.0	0.88	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
trans-1,3-Dichloropropene	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,1,1-Trichloroethane	<2.0		2.0	0.66	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
1,1,2-Trichloroethane	<2.0		2.0	0.85	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Trichloroethene	<2.0		2.0	0.67	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Vinyl chloride	<2.0		2.0	0.88	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1
Xylenes, Total	<4.0		4.0	0.63	ug/Kg	☼	01/15/19 17:48	01/17/19 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	01/15/19 17:48	01/17/19 18:28	1
Dibromofluoromethane	112		75 - 126	01/15/19 17:48	01/17/19 18:28	1
1,2-Dichloroethane-d4 (Surr)	132		70 - 134	01/15/19 17:48	01/17/19 18:28	1
Toluene-d8 (Surr)	105		75 - 124	01/15/19 17:48	01/17/19 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419

Lab Sample ID: 500-157465-1

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Methylnaphthalene	11	J	79	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Acenaphthene	12	J	39	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Acenaphthylene	17	J	39	5.2	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Anthracene	18	J	39	6.5	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Benzo[a]anthracene	42		39	5.3	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Benzo[a]pyrene	55		39	7.6	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Benzo[b]fluoranthene	110		39	8.5	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Benzo[g,h,i]perylene	63		39	13	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Benzo[k]fluoranthene	35	J	39	12	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Carbazole	<200		200	98	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Chrysene	73		39	11	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Dibenz(a,h)anthracene	17	J	39	7.6	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Fluoranthene	85		39	7.3	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Fluorene	12	J	39	5.5	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/16/19 07:29	01/16/19 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419

Lab Sample ID: 500-157465-1

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

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	46		39	10	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Isophorone	<200		200	44	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Naphthalene	12	J	39	6.0	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Nitrobenzene	<39		39	9.8	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Pentachlorophenol	<790		790	630	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Phenanthrene	50		39	5.5	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Phenol	<200		200	87	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1
Pyrene	84		39	7.8	ug/Kg	*	01/16/19 07:29	01/16/19 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143	01/16/19 07:29	01/16/19 18:49	1
2-Fluorobiphenyl	100		43 - 145	01/16/19 07:29	01/16/19 18:49	1
2-Fluorophenol	112		31 - 166	01/16/19 07:29	01/16/19 18:49	1
Nitrobenzene-d5	105		37 - 147	01/16/19 07:29	01/16/19 18:49	1
Phenol-d5	90		30 - 153	01/16/19 07:29	01/16/19 18:49	1
Terphenyl-d14	165	X	42 - 157	01/16/19 07:29	01/16/19 18:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Barium	0.33	J	0.50	0.050	mg/L		01/17/19 15:02	01/18/19 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/18/19 23:51	1
Cadmium	0.0045	J	0.0050	0.0020	mg/L		01/17/19 15:02	01/18/19 23:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Iron	0.26	J	0.40	0.20	mg/L		01/17/19 15:02	01/18/19 23:51	1
Lead	0.039		0.0075	0.0075	mg/L		01/17/19 15:02	01/18/19 23:51	1
Manganese	2.2		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Nickel	0.015	J B	0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:09	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:51	1
Zinc	0.12	J B	0.50	0.020	mg/L		01/17/19 15:02	01/18/19 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Barium	0.60		0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:26	1
Beryllium	0.0090		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:26	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:26	1
Chromium	0.26		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Cobalt	0.063		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Copper	0.20		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Iron	300		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:26	1
Lead	0.50		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:26	1
Manganese	1.4		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Nickel	0.14		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419

Lab Sample ID: 500-157465-1

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.015	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:26	1
Zinc	0.75		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.22	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Arsenic	11		0.55	0.19	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Barium	44		0.55	0.063	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Beryllium	0.66		0.22	0.052	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Cadmium	0.17	B	0.11	0.020	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Calcium	3900	B	11	1.9	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Chromium	20		0.55	0.27	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Cobalt	6.3		0.28	0.073	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Copper	16	B	0.55	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Iron	23000		11	5.8	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Lead	28		0.28	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Magnesium	4700		5.5	2.7	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Manganese	140		0.55	0.080	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Nickel	14		0.55	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Potassium	2300		28	9.8	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Selenium	0.70		0.55	0.33	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Silver	2.4		0.28	0.071	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Sodium	1800		55	8.2	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Thallium	1.5		0.55	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Vanadium	27		0.28	0.065	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	1
Zinc	67		1.1	0.49	mg/Kg	☼	01/17/19 08:44	01/17/19 18:53	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		01/18/19 11:10	01/21/19 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.40		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.8	J	18	6.0	ug/Kg	☼	01/16/19 13:55	01/17/19 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.2	0.2	SU			01/21/19 15:38	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419D

Lab Sample ID: 500-157465-2

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	74		21	9.3	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Benzene	<2.1		2.1	0.54	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Bromodichloromethane	<2.1		2.1	0.43	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Bromoform	<2.1		2.1	0.62	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Bromomethane	<5.3 *		5.3	2.0	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Carbon disulfide	<5.3		5.3	1.1	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Carbon tetrachloride	<2.1		2.1	0.62	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Chlorobenzene	<2.1		2.1	0.79	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Chloroethane	<5.3 *		5.3	1.6	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Chloroform	<2.1		2.1	0.74	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Chloromethane	<5.3		5.3	2.1	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
cis-1,2-Dichloroethene	<2.1		2.1	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
cis-1,3-Dichloropropene	<2.1		2.1	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Dibromochloromethane	<2.1		2.1	0.70	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,1-Dichloroethane	<2.1		2.1	0.73	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,2-Dichloroethane	<5.3		5.3	1.7	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,1-Dichloroethene	<2.1		2.1	0.73	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,2-Dichloropropane	<2.1		2.1	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,3-Dichloropropene, Total	<2.1		2.1	0.75	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Ethylbenzene	<2.1		2.1	1.0	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
2-Hexanone	<5.3		5.3	1.7	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Methylene Chloride	<5.3		5.3	2.1	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Methyl Ethyl Ketone	14		5.3	2.4	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
methyl isobutyl ketone	<5.3		5.3	1.6	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Methyl tert-butyl ether	<2.1		2.1	0.63	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Styrene	<2.1		2.1	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Tetrachloroethene	<2.1		2.1	0.73	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Toluene	<2.1		2.1	0.54	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
trans-1,2-Dichloroethene	<2.1		2.1	0.94	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
trans-1,3-Dichloropropene	<2.1		2.1	0.75	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,1,1-Trichloroethane	<2.1		2.1	0.72	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
1,1,2-Trichloroethane	<2.1		2.1	0.91	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Trichloroethene	<2.1		2.1	0.72	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Vinyl chloride	<2.1		2.1	0.94	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1
Xylenes, Total	<4.3		4.3	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	01/15/19 17:48	01/17/19 18:53	1
Dibromofluoromethane	112		75 - 126	01/15/19 17:48	01/17/19 18:53	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	01/15/19 17:48	01/17/19 18:53	1
Toluene-d8 (Surr)	100		75 - 124	01/15/19 17:48	01/17/19 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419D

Lab Sample ID: 500-157465-2

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Methylnaphthalene	7.4	J	78	7.1	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Methylphenol	<200		200	62	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Acenaphthene	11	J	39	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Acenaphthylene	14	J	39	5.1	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Anthracene	14	J	39	6.5	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Benzo[a]anthracene	23	J	39	5.2	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Benzo[a]pyrene	35	J	39	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Benzo[b]fluoranthene	62		39	8.4	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Benzo[g,h,i]perylene	49		39	13	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Benzo[k]fluoranthene	15	J	39	11	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Carbazole	<200		200	97	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Chrysene	39		39	11	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Dibenz(a,h)anthracene	7.8	J	39	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Dibenzofuran	<200		200	45	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Fluoranthene	48		39	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Fluorene	10	J	39	5.5	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Hexachloroethane	<200		200	59	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419D

Lab Sample ID: 500-157465-2

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	27	J	39	10	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Isophorone	<200		200	44	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Naphthalene	9.2	J	39	6.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Phenanthrene	30	J	39	5.4	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Phenol	<200		200	86	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1
Pyrene	52		39	7.7	ug/Kg	☼	01/16/19 07:29	01/16/19 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143	01/16/19 07:29	01/16/19 19:14	1
2-Fluorobiphenyl	101		43 - 145	01/16/19 07:29	01/16/19 19:14	1
2-Fluorophenol	116		31 - 166	01/16/19 07:29	01/16/19 19:14	1
Nitrobenzene-d5	111		37 - 147	01/16/19 07:29	01/16/19 19:14	1
Phenol-d5	93		30 - 153	01/16/19 07:29	01/16/19 19:14	1
Terphenyl-d14	169	X	42 - 157	01/16/19 07:29	01/16/19 19:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Barium	0.27	J	0.50	0.050	mg/L		01/17/19 15:02	01/18/19 23:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/18/19 23:55	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		01/17/19 15:02	01/18/19 23:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Iron	0.25	J	0.40	0.20	mg/L		01/17/19 15:02	01/18/19 23:55	1
Lead	0.022		0.0075	0.0075	mg/L		01/17/19 15:02	01/18/19 23:55	1
Manganese	1.7		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Nickel	0.013	J B	0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:13	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:55	1
Zinc	0.17	J B	0.50	0.020	mg/L		01/17/19 15:02	01/18/19 23:55	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		01/17/19 14:59	01/18/19 15:30	1
Barium	0.52		0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:30	1
Beryllium	0.0080		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:30	1
Chromium	0.23		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Cobalt	0.057		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Copper	0.18		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Iron	260		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:30	1
Lead	0.25		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:30	1
Manganese	1.1		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Nickel	0.13		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(0-4)-011419D

Lab Sample ID: 500-157465-2

Date Collected: 01/14/19 09:25

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.014	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:30	1
Zinc	0.68		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.22	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Arsenic	5.5		0.57	0.19	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Barium	27		0.57	0.065	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Beryllium	0.42		0.23	0.053	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Cadmium	0.13	B	0.11	0.020	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Calcium	3800	B	11	1.9	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Chromium	14		0.57	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Cobalt	4.6		0.28	0.074	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Copper	10	B	0.57	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Iron	14000		11	5.9	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Lead	25		0.28	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Magnesium	3800		5.7	2.8	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Manganese	110		0.57	0.082	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Nickel	9.5		0.57	0.17	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Potassium	1500		28	10	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Selenium	0.36	J	0.57	0.33	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Silver	2.0		0.28	0.073	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Sodium	1300		57	8.4	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Thallium	1.2		0.57	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Vanadium	19		0.28	0.067	mg/Kg	☼	01/17/19 08:44	01/17/19 18:57	1
Zinc	46		1.1	0.50	mg/Kg	☼	01/17/19 08:44	01/17/19 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		01/18/19 11:10	01/21/19 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	6.2	ug/Kg	☼	01/16/19 13:55	01/17/19 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			01/21/19 15:42	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(4-8)-011419

Lab Sample ID: 500-157465-3

Date Collected: 01/14/19 09:30

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.3	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Bromomethane	<4.7 *		4.7	1.8	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Carbon disulfide	<4.7		4.7	0.99	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Ethylbenzene	<1.9		1.9	0.91	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	01/15/19 17:48	01/17/19 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	01/15/19 17:48	01/17/19 19:19	1
Dibromofluoromethane	109		75 - 126	01/15/19 17:48	01/17/19 19:19	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	01/15/19 17:48	01/17/19 19:19	1
Toluene-d8 (Surr)	100		75 - 124	01/15/19 17:48	01/17/19 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	<190		190	41	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(4-8)-011419

Lab Sample ID: 500-157465-3

Date Collected: 01/14/19 09:30

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Methylnaphthalene	<76		76	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Carbazole	<190		190	94	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Chrysene	<38		38	10	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Fluoranthene	9.2 J		38	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/16/19 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(4-8)-011419

Lab Sample ID: 500-157465-3

Date Collected: 01/14/19 09:30

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Isophorone	<190		190	42	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Naphthalene	<38		38	5.8	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Nitrobenzene	<38		38	9.4	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Pentachlorophenol	<760		760	610	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Phenanthrene	<38		38	5.3	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Phenol	<190		190	84	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1
Pyrene	<38		38	7.5	ug/Kg	*	01/16/19 07:29	01/16/19 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143	01/16/19 07:29	01/16/19 19:39	1
2-Fluorobiphenyl	88		43 - 145	01/16/19 07:29	01/16/19 19:39	1
2-Fluorophenol	102		31 - 166	01/16/19 07:29	01/16/19 19:39	1
Nitrobenzene-d5	93		37 - 147	01/16/19 07:29	01/16/19 19:39	1
Phenol-d5	88		30 - 153	01/16/19 07:29	01/16/19 19:39	1
Terphenyl-d14	157		42 - 157	01/16/19 07:29	01/16/19 19:39	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		01/17/19 15:02	01/18/19 23:59	1
Barium	0.15	J	0.50	0.050	mg/L		01/17/19 15:02	01/18/19 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/18/19 23:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 15:02	01/18/19 23:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Iron	<0.40		0.40	0.20	mg/L		01/17/19 15:02	01/18/19 23:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/19 15:02	01/18/19 23:59	1
Manganese	0.061		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:18	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/18/19 23:59	1
Zinc	0.025	J B	0.50	0.020	mg/L		01/17/19 15:02	01/18/19 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Barium	0.39	J	0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:34	1
Beryllium	0.0064		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:34	1
Chromium	0.15		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Cobalt	0.070		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Copper	0.18		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Iron	180		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:34	1
Lead	0.090		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:34	1
Manganese	2.0		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Nickel	0.14		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-7(4-8)-011419

Lab Sample ID: 500-157465-3

Date Collected: 01/14/19 09:30

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.019	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:34	1
Zinc	0.52		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Arsenic	4.4		0.56	0.19	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Barium	23		0.56	0.064	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Beryllium	0.42		0.23	0.053	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Cadmium	0.084	J B	0.11	0.020	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Calcium	570	B	11	1.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Chromium	11		0.56	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Cobalt	9.1		0.28	0.074	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Copper	9.5	B	0.56	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Iron	11000		11	5.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Lead	7.7		0.28	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Magnesium	1700		5.6	2.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Manganese	230		0.56	0.082	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Nickel	11		0.56	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Potassium	1300		28	10	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Silver	2.2		0.28	0.073	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Sodium	1000		56	8.4	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Thallium	1.3		0.56	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Vanadium	16		0.28	0.067	mg/Kg	☼	01/17/19 08:44	01/17/19 19:01	1
Zinc	38		1.1	0.50	mg/Kg	☼	01/17/19 08:44	01/17/19 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		01/18/19 11:10	01/21/19 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	6.0	ug/Kg	☼	01/16/19 13:55	01/17/19 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.2	0.2	SU			01/21/19 15:47	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(0-4)-011419

Lab Sample ID: 500-157465-4

Date Collected: 01/14/19 09:45

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.7	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Bromoform	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Bromomethane	<5.0 *		5.0	1.9	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Chlorobenzene	<2.0		2.0	0.74	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Chloroethane	<5.0 *		5.0	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Chloroform	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
cis-1,3-Dichloropropene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Dibromochloromethane	<2.0		2.0	0.65	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,3-Dichloropropene, Total	<2.0		2.0	0.70	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Ethylbenzene	<2.0		2.0	0.96	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Styrene	<2.0		2.0	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Tetrachloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
trans-1,2-Dichloroethene	<2.0		2.0	0.89	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
trans-1,3-Dichloropropene	<2.0		2.0	0.70	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,1,1-Trichloroethane	<2.0		2.0	0.67	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
1,1,2-Trichloroethane	<2.0		2.0	0.86	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1
Xylenes, Total	<4.0		4.0	0.64	ug/Kg	☼	01/15/19 17:48	01/17/19 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	01/15/19 17:48	01/17/19 19:44	1
Dibromofluoromethane	109		75 - 126	01/15/19 17:48	01/17/19 19:44	1
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	01/15/19 17:48	01/17/19 19:44	1
Toluene-d8 (Surr)	102		75 - 124	01/15/19 17:48	01/17/19 19:44	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	☼	01/16/19 07:29	01/16/19 20:05	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(0-4)-011419

Lab Sample ID: 500-157465-4

Date Collected: 01/14/19 09:45

Matrix: Solid

Date Received: 01/14/19 19:00

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	<390		390	89	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Methylnaphthalene	7.8	J	79	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Acenaphthene	11	J	39	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Acenaphthylene	12	J	39	5.1	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Anthracene	14	J	39	6.5	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Benzo[a]anthracene	25	J	39	5.2	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Benzo[a]pyrene	37	J	39	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Benzo[b]fluoranthene	78		39	8.4	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Benzo[g,h,i]perylene	46		39	13	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Benzo[k]fluoranthene	19	J	39	11	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Carbazole	<200		200	97	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Chrysene	47		39	11	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Dibenz(a,h)anthracene	9.9	J	39	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Fluoranthene	61		39	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Fluorene	9.7	J	39	5.5	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1
Hexachloroethane	<200		200	59	ug/Kg	☼	01/16/19 07:29	01/16/19 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(0-4)-011419

Lab Sample ID: 500-157465-4

Date Collected: 01/14/19 09:45

Matrix: Solid

Date Received: 01/14/19 19:00

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	23	J	39	10	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Isophorone	<200		200	44	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Naphthalene	9.8	J	39	6.0	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Nitrobenzene	<39		39	9.7	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Pentachlorophenol	<790		790	630	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Phenanthrene	35	J	39	5.4	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Phenol	<200		200	87	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1
Pyrene	62		39	7.7	ug/Kg	*	01/16/19 07:29	01/16/19 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		31 - 143	01/16/19 07:29	01/16/19 20:05	1
2-Fluorobiphenyl	101		43 - 145	01/16/19 07:29	01/16/19 20:05	1
2-Fluorophenol	113		31 - 166	01/16/19 07:29	01/16/19 20:05	1
Nitrobenzene-d5	110		37 - 147	01/16/19 07:29	01/16/19 20:05	1
Phenol-d5	95		30 - 153	01/16/19 07:29	01/16/19 20:05	1
Terphenyl-d14	182	X	42 - 157	01/16/19 07:29	01/16/19 20:05	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		01/17/19 15:02	01/19/19 00:03	1
Barium	0.37	J	0.50	0.050	mg/L		01/17/19 15:02	01/19/19 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/19/19 00:03	1
Cadmium	0.0056		0.0050	0.0020	mg/L		01/17/19 15:02	01/19/19 00:03	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Copper	0.043		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Iron	<0.40		0.40	0.20	mg/L		01/17/19 15:02	01/19/19 00:03	1
Lead	0.013		0.0075	0.0075	mg/L		01/17/19 15:02	01/19/19 00:03	1
Manganese	0.61		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Nickel	0.015	J B	0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:22	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:03	1
Zinc	0.38	J B	0.50	0.020	mg/L		01/17/19 15:02	01/19/19 00:03	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		01/17/19 14:59	01/18/19 15:38	1
Barium	0.52		0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:38	1
Beryllium	0.0066		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:38	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:38	1
Chromium	0.17		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Cobalt	0.062		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Copper	0.23		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Iron	180		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:38	1
Lead	0.42		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:38	1
Manganese	1.4		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Nickel	0.15		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(0-4)-011419

Lab Sample ID: 500-157465-4

Date Collected: 01/14/19 09:45

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.018	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:38	1
Zinc	1.1		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Arsenic	7.8		0.56	0.19	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Barium	32		0.56	0.064	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Beryllium	0.47		0.23	0.053	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Cadmium	0.18	B	0.11	0.020	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Calcium	4000	B	11	1.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Chromium	12		0.56	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Cobalt	7.2		0.28	0.074	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Copper	19	B	0.56	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Iron	13000		11	5.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Lead	31		0.28	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Magnesium	3400		5.6	2.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Manganese	220		0.56	0.082	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Nickel	13		0.56	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Potassium	1500		28	10	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Silver	2.5		0.28	0.073	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Sodium	500		56	8.3	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Thallium	1.4		0.56	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Vanadium	18		0.28	0.067	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1
Zinc	57		1.1	0.49	mg/Kg	☼	01/17/19 08:44	01/17/19 19:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:47	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		01/18/19 11:10	01/21/19 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30	F1	19	6.3	ug/Kg	☼	01/16/19 13:55	01/17/19 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			01/21/19 15:52	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(4-8)-011419

Lab Sample ID: 500-157465-5

Date Collected: 01/14/19 09:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	8.0	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Bromodichloromethane	<1.8		1.8	0.38	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Bromoform	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Carbon disulfide	<4.6		4.6	0.96	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Carbon tetrachloride	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Chloromethane	<4.6		4.6	1.9	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
cis-1,2-Dichloroethene	<1.8		1.8	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
cis-1,3-Dichloropropene	<1.8		1.8	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,2-Dichloroethane	<4.6 *		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,1-Dichloroethene	<1.8		1.8	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,2-Dichloropropane	<1.8		1.8	0.48	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,3-Dichloropropene, Total	<1.8		1.8	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Methyl Ethyl Ketone	<4.6		4.6	2.1	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Styrene	<1.8		1.8	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Tetrachloroethene	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Toluene	<1.8		1.8	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
trans-1,2-Dichloroethene	<1.8		1.8	0.82	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
trans-1,3-Dichloropropene	<1.8		1.8	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,1,1-Trichloroethane	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Vinyl chloride	<1.8		1.8	0.82	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	01/15/19 17:48	01/18/19 12:06	1
Dibromofluoromethane	104		75 - 126	01/15/19 17:48	01/18/19 12:06	1
1,2-Dichloroethane-d4 (Surr)	136	X	70 - 134	01/15/19 17:48	01/18/19 12:06	1
Toluene-d8 (Surr)	93		75 - 124	01/15/19 17:48	01/18/19 12:06	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	41	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(4-8)-011419

Lab Sample ID: 500-157465-5

Date Collected: 01/14/19 09:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Carbazole	<190		190	95	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Chrysene	<38		38	10	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/16/19 20:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(4-8)-011419

Lab Sample ID: 500-157465-5

Date Collected: 01/14/19 09:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Isophorone	<190		190	43	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Naphthalene	<38		38	5.9	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Nitrobenzene	<38		38	9.5	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Pentachlorophenol	<770		770	610	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Phenanthrene	<38		38	5.3	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Phenol	<190		190	85	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1
Pyrene	<38		38	7.6	ug/Kg	*	01/16/19 07:29	01/16/19 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143	01/16/19 07:29	01/16/19 20:30	1
2-Fluorobiphenyl	87		43 - 145	01/16/19 07:29	01/16/19 20:30	1
2-Fluorophenol	106		31 - 166	01/16/19 07:29	01/16/19 20:30	1
Nitrobenzene-d5	95		37 - 147	01/16/19 07:29	01/16/19 20:30	1
Phenol-d5	87		30 - 153	01/16/19 07:29	01/16/19 20:30	1
Terphenyl-d14	145		42 - 157	01/16/19 07:29	01/16/19 20:30	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		01/17/19 15:02	01/19/19 00:15	1
Barium	0.20	J	0.50	0.050	mg/L		01/17/19 15:02	01/19/19 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/19/19 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 15:02	01/19/19 00:15	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Iron	<0.40		0.40	0.20	mg/L		01/17/19 15:02	01/19/19 00:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/19 15:02	01/19/19 00:15	1
Manganese	0.061		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:26	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:15	1
Zinc	0.063	J B	0.50	0.020	mg/L		01/17/19 15:02	01/19/19 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Barium	0.42	J	0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:42	1
Beryllium	0.0063		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:42	1
Chromium	0.13		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Cobalt	0.066		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Copper	0.20		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Iron	210		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:42	1
Lead	0.096		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:42	1
Manganese	2.1		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Nickel	0.23		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-6(4-8)-011419

Lab Sample ID: 500-157465-5

Date Collected: 01/14/19 09:50

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.027		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:42	1
Zinc	0.60		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.22	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Arsenic	5.8		0.57	0.20	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Barium	25		0.57	0.065	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Beryllium	0.38		0.23	0.054	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Cadmium	0.077	J B	0.11	0.021	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Calcium	550	B	11	1.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Chromium	9.4		0.57	0.28	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Cobalt	5.5		0.29	0.075	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Copper	11	B	0.57	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Iron	12000		11	6.0	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Lead	7.0		0.29	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Magnesium	1400		5.7	2.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Manganese	180		0.57	0.083	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Nickel	14		0.57	0.17	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Potassium	1400		29	10	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Silver	2.4		0.29	0.074	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Sodium	440		57	8.5	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Thallium	1.3		0.57	0.29	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Vanadium	16		0.29	0.068	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1
Zinc	41		1.1	0.50	mg/Kg	☼	01/17/19 08:44	01/17/19 19:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	5.8	ug/Kg	☼	01/16/19 13:55	01/17/19 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			01/21/19 15:56	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-4(0-4)-011419

Lab Sample ID: 500-157465-8

Date Collected: 01/14/19 10:24

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.4	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Carbon disulfide	<4.3		4.3	0.89	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,2-Dichloroethane	<4.3 *		4.3	1.3	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	01/15/19 17:48	01/17/19 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	01/15/19 17:48	01/17/19 18:03	1
Dibromofluoromethane	101		75 - 126	01/15/19 17:48	01/17/19 18:03	1
1,2-Dichloroethane-d4 (Surr)	132		70 - 134	01/15/19 17:48	01/17/19 18:03	1
Toluene-d8 (Surr)	95		75 - 124	01/15/19 17:48	01/17/19 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-4(0-4)-011419

Lab Sample ID: 500-157465-8

Date Collected: 01/14/19 10:24

Matrix: Solid

Date Received: 01/14/19 19:00

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	☼	01/16/19 07:29	01/16/19 21:45	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Methylnaphthalene	15	J	75	6.9	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Acenaphthene	15	J	37	6.7	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Acenaphthylene	21	J	37	4.9	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Anthracene	25	J	37	6.3	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Benzo[a]anthracene	97		37	5.0	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Benzo[a]pyrene	140		37	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Benzo[b]fluoranthene	250		37	8.1	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Benzo[g,h,i]perylene	76		37	12	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Benzo[k]fluoranthene	73		37	11	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Bis(2-ethylhexyl) phthalate	88	J	190	68	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Carbazole	<190		190	94	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Chrysene	140		37	10	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Dibenz(a,h)anthracene	23	J	37	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Fluoranthene	200		37	6.9	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Fluorene	14	J	37	5.3	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/16/19 21:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-4(0-4)-011419

Lab Sample ID: 500-157465-8

Date Collected: 01/14/19 10:24

Matrix: Solid

Date Received: 01/14/19 19:00

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	55		37	9.7	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Isophorone	<190		190	42	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Naphthalene	12	J	37	5.8	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Nitrobenzene	<37		37	9.3	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Pentachlorophenol	<750		750	600	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Phenanthrene	100		37	5.2	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Phenol	<190		190	83	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1
Pyrene	210		37	7.4	ug/Kg	*	01/16/19 07:29	01/16/19 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		31 - 143	01/16/19 07:29	01/16/19 21:45	1
2-Fluorobiphenyl	74		43 - 145	01/16/19 07:29	01/16/19 21:45	1
2-Fluorophenol	87		31 - 166	01/16/19 07:29	01/16/19 21:45	1
Nitrobenzene-d5	74		37 - 147	01/16/19 07:29	01/16/19 21:45	1
Phenol-d5	76		30 - 153	01/16/19 07:29	01/16/19 21:45	1
Terphenyl-d14	158	X	42 - 157	01/16/19 07:29	01/16/19 21:45	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		01/17/19 15:02	01/19/19 00:28	1
Barium	0.34	J	0.50	0.050	mg/L		01/17/19 15:02	01/19/19 00:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/19/19 00:28	1
Cadmium	0.0069		0.0050	0.0020	mg/L		01/17/19 15:02	01/19/19 00:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Iron	<0.40		0.40	0.20	mg/L		01/17/19 15:02	01/19/19 00:28	1
Lead	0.019		0.0075	0.0075	mg/L		01/17/19 15:02	01/19/19 00:28	1
Manganese	0.64		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Nickel	0.012	J B	0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:46	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:28	1
Zinc	0.70	B	0.50	0.020	mg/L		01/17/19 15:02	01/19/19 00:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.044	J	0.050	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Barium	0.31	J	0.50	0.050	mg/L		01/17/19 14:59	01/18/19 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 15:54	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 15:54	1
Chromium	0.095		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Cobalt	0.028		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Copper	0.11		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Iron	87		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 15:54	1
Lead	0.42		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 15:54	1
Manganese	0.79		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Nickel	0.073		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-4(0-4)-011419

Lab Sample ID: 500-157465-8

Date Collected: 01/14/19 10:24

Matrix: Solid

Date Received: 01/14/19 19:00

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		01/17/19 14:59	01/18/19 15:54	1
Zinc	0.79		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 15:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J F1	1.0	0.20	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Arsenic	5.4	F1	0.52	0.18	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Barium	28		0.52	0.059	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Beryllium	0.36		0.21	0.049	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Cadmium	0.35	B	0.10	0.019	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Calcium	10000	B	10	1.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Chromium	10		0.52	0.26	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Cobalt	5.4		0.26	0.068	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Copper	14	B	0.52	0.15	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Iron	11000		10	5.4	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Lead	74		0.26	0.12	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Magnesium	6600		5.2	2.6	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Manganese	180		0.52	0.075	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Nickel	9.9		0.52	0.15	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Potassium	1000	F1	26	9.2	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Selenium	<0.52	F1	0.52	0.31	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Silver	1.8		0.26	0.067	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Sodium	320		52	7.7	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Thallium	0.78		0.52	0.26	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Vanadium	13		0.26	0.061	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	1
Zinc	86		1.0	0.46	mg/Kg	☼	01/17/19 08:44	01/17/19 19:29	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		01/18/19 11:10	01/21/19 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.2	J	18	5.9	ug/Kg	☼	01/16/19 13:55	01/17/19 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			01/21/19 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(0-4)-011419

Lab Sample ID: 500-157465-9

Date Collected: 01/14/19 10:35

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	60		18	8.0	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Carbon disulfide	<4.6		4.6	0.95	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Chloromethane	<4.6		4.6	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloroethane	<4.6 *		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,3-Dichloropropane, Total	<1.8		1.8	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methyl Ethyl Ketone	13		4.6	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
trans-1,2-Dichloroethene	<1.8		1.8	0.81	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	01/15/19 17:48	01/18/19 13:22	1
Dibromofluoromethane	104		75 - 126	01/15/19 17:48	01/18/19 13:22	1
1,2-Dichloroethane-d4 (Surr)	134		70 - 134	01/15/19 17:48	01/18/19 13:22	1
Toluene-d8 (Surr)	95		75 - 124	01/15/19 17:48	01/18/19 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(0-4)-011419

Lab Sample ID: 500-157465-9

Date Collected: 01/14/19 10:35

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Methylnaphthalene	8.8	J	77	7.0	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Acenaphthylene	9.4	J	38	5.0	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Anthracene	11	J	38	6.4	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Benzo[a]anthracene	33	J	38	5.1	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Benzo[a]pyrene	39		38	7.4	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Benzo[b]fluoranthene	69		38	8.2	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Benzo[g,h,i]perylene	30	J	38	12	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Benzo[k]fluoranthene	18	J	38	11	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Carbazole	<190		190	95	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Chrysene	51		38	10	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Dibenz(a,h)anthracene	7.6	J	38	7.4	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Fluoranthene	59		38	7.1	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(0-4)-011419

Lab Sample ID: 500-157465-9

Date Collected: 01/14/19 10:35

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	25	J	38	9.9	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Isophorone	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Naphthalene	7.6	J	38	5.9	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Phenanthrene	42		38	5.3	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Phenol	<190		190	85	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1
Pyrene	58		38	7.6	ug/Kg	☼	01/16/19 07:29	01/17/19 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143	01/16/19 07:29	01/17/19 13:02	1
2-Fluorobiphenyl	105		43 - 145	01/16/19 07:29	01/17/19 13:02	1
2-Fluorophenol	107		31 - 166	01/16/19 07:29	01/17/19 13:02	1
Nitrobenzene-d5	108		37 - 147	01/16/19 07:29	01/17/19 13:02	1
Phenol-d5	104		30 - 153	01/16/19 07:29	01/17/19 13:02	1
Terphenyl-d14	122		42 - 157	01/16/19 07:29	01/17/19 13:02	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		01/17/19 15:02	01/19/19 00:32	1
Barium	0.40	J	0.50	0.050	mg/L		01/17/19 15:02	01/19/19 00:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/19/19 00:32	1
Cadmium	0.0052		0.0050	0.0020	mg/L		01/17/19 15:02	01/19/19 00:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Cobalt	0.079		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Copper	0.019	J	0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Iron	2.8		0.40	0.20	mg/L		01/17/19 15:02	01/19/19 00:32	1
Lead	0.057		0.0075	0.0075	mg/L		01/17/19 15:02	01/19/19 00:32	1
Manganese	9.4		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Nickel	0.029	B	0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:50	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:32	1
Zinc	0.41	J B	0.50	0.020	mg/L		01/17/19 15:02	01/19/19 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Barium	0.54		0.50	0.050	mg/L		01/17/19 14:59	01/18/19 16:06	1
Beryllium	0.0073		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 16:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 16:06	1
Chromium	0.15		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Cobalt	0.091		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Copper	0.19		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Iron	180		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 16:06	1
Lead	0.30		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 16:06	1
Manganese	1.9		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Nickel	0.11		0.025	0.010	mg/L		01/17/19 14:59	01/21/19 13:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:59	01/18/19 16:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(0-4)-011419

Lab Sample ID: 500-157465-9

Date Collected: 01/14/19 10:35

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.021	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:06	1
Zinc	0.60		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 16:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.20	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Arsenic	7.5		0.53	0.18	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Barium	35		0.53	0.060	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Beryllium	0.54		0.21	0.049	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Cadmium	0.28	B	0.11	0.019	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Calcium	8900	B	11	1.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Chromium	12		0.53	0.26	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Cobalt	9.3		0.26	0.069	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Copper	15	B	0.53	0.15	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Iron	13000		11	5.5	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Lead	56		0.26	0.12	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Magnesium	5400		5.3	2.6	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Manganese	270		0.53	0.076	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Nickel	14		0.53	0.15	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Potassium	1300		26	9.3	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Silver	2.6		0.26	0.068	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Sodium	860		53	7.8	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Thallium	1.5		0.53	0.26	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Vanadium	16		0.26	0.062	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	1
Zinc	110		1.1	0.46	mg/Kg	☼	01/17/19 08:44	01/17/19 19:48	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		01/18/19 11:10	01/21/19 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.2	J	18	6.1	ug/Kg	☼	01/16/19 13:55	01/17/19 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			01/21/19 16:15	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(4-8)-011419

Lab Sample ID: 500-157465-10

Date Collected: 01/14/19 10:40

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	56		20	8.8	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Chlorobenzene	<2.0		2.0	0.74	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Chloroethane	<5.0		5.0	1.5	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Chloroform	<2.0		2.0	0.70	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Ethylbenzene	<2.0		2.0	0.96	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,1,1,2-Tetrachloroethane	<2.0		2.0	0.64	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
trans-1,2-Dichloroethene	<2.0		2.0	0.89	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
1,1,2-Trichloroethane	<2.0		2.0	0.86	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1
Xylenes, Total	<4.0		4.0	0.65	ug/Kg	☼	01/14/19 10:40	01/21/19 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		75 - 131	01/14/19 10:40	01/21/19 11:40	1
Dibromofluoromethane	104		75 - 126	01/14/19 10:40	01/21/19 11:40	1
1,2-Dichloroethane-d4 (Surr)	146	X	70 - 134	01/14/19 10:40	01/21/19 11:40	1
Toluene-d8 (Surr)	97		75 - 124	01/14/19 10:40	01/21/19 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(4-8)-011419

Lab Sample ID: 500-157465-10

Date Collected: 01/14/19 10:40

Matrix: Solid

Date Received: 01/14/19 19:00

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	<380		380	88	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Bis(2-ethylhexyl) phthalate	73 J		190	70	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Carbazole	<190		190	96	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Chrysene	<38		38	11	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/16/19 07:29	01/16/19 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(4-8)-011419

Lab Sample ID: 500-157465-10

Date Collected: 01/14/19 10:40

Matrix: Solid

Date Received: 01/14/19 19:00

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	<38		38	10	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Isophorone	<190		190	43	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Naphthalene	<38		38	5.9	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Nitrobenzene	<38		38	9.6	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Pentachlorophenol	<780		780	620	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Phenanthrene	<38		38	5.4	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Phenol	<190		190	86	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1
Pyrene	<38		38	7.7	ug/Kg	*	01/16/19 07:29	01/16/19 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		31 - 143	01/16/19 07:29	01/16/19 22:36	1
2-Fluorobiphenyl	89		43 - 145	01/16/19 07:29	01/16/19 22:36	1
2-Fluorophenol	107		31 - 166	01/16/19 07:29	01/16/19 22:36	1
Nitrobenzene-d5	96		37 - 147	01/16/19 07:29	01/16/19 22:36	1
Phenol-d5	89		30 - 153	01/16/19 07:29	01/16/19 22:36	1
Terphenyl-d14	168	X	42 - 157	01/16/19 07:29	01/16/19 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		01/17/19 15:02	01/19/19 00:36	1
Barium	0.26	J	0.50	0.050	mg/L		01/17/19 15:02	01/19/19 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/19 15:02	01/19/19 00:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 15:02	01/19/19 00:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Copper	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Iron	<0.40		0.40	0.20	mg/L		01/17/19 15:02	01/19/19 00:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/19 15:02	01/19/19 00:36	1
Manganese	0.077		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Nickel	0.013	J B	0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 15:02	01/21/19 12:54	1
Silver	<0.025		0.025	0.010	mg/L		01/17/19 15:02	01/19/19 00:36	1
Zinc	0.34	J B	0.50	0.020	mg/L		01/17/19 15:02	01/19/19 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Barium	0.49	J	0.50	0.050	mg/L		01/17/19 14:59	01/18/19 16:10	1
Beryllium	0.0056		0.0040	0.0040	mg/L		01/17/19 14:59	01/18/19 16:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:59	01/18/19 16:10	1
Chromium	0.16		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Cobalt	0.043		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Copper	0.18		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Iron	160		0.40	0.20	mg/L		01/17/19 14:59	01/18/19 16:10	1
Lead	0.072		0.0075	0.0075	mg/L		01/17/19 14:59	01/18/19 16:10	1
Manganese	1.0		0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Nickel	0.072		0.025	0.010	mg/L		01/17/19 14:59	01/21/19 13:15	1
Selenium	<0.050	F1	0.050	0.020	mg/L		01/17/19 14:59	01/18/19 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Client Sample ID: CC-3(4-8)-011419

Lab Sample ID: 500-157465-10

Date Collected: 01/14/19 10:40

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.022	J	0.025	0.010	mg/L		01/17/19 14:59	01/18/19 16:10	1
Zinc	0.77		0.50	0.020	mg/L		01/17/19 14:59	01/18/19 16:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.2	0.23	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Arsenic	5.1		0.58	0.20	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Barium	27		0.58	0.066	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Beryllium	0.32		0.23	0.054	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Cadmium	0.12	B	0.12	0.021	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Calcium	550	B	12	2.0	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Chromium	9.6		0.58	0.29	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Cobalt	5.5		0.29	0.076	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Copper	12	B	0.58	0.16	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Iron	12000		12	6.1	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Lead	6.6		0.29	0.13	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Magnesium	1100		5.8	2.9	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Manganese	180		0.58	0.084	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Nickel	14		0.58	0.17	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Potassium	1000		29	10	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Silver	2.5		0.29	0.075	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Sodium	520		58	8.6	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Thallium	1.4		0.58	0.29	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Vanadium	15		0.29	0.069	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	1
Zinc	46		1.2	0.51	mg/Kg	☼	01/17/19 08:44	01/17/19 19:52	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		01/18/19 11:10	01/21/19 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.20	0.20	ug/L		01/18/19 11:10	01/21/19 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<19		19	6.2	ug/Kg	☼	01/16/19 13:55	01/17/19 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.2	0.2	SU			01/21/19 16:20	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery 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.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157465-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	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



500-157465 COC

Report To (optional)
Contact: Andris Seseas
Company: Western
Address: 200 plaza circle suite 202
Address: Mundelein, IL, 60060
Phone: _____
Fax: _____
E-Mail: andris.seseas@westernsolutions.com

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

Chain of Custody Record

Lab Job #: 500-157465

Chain of Custody Number: _____

Page 1 of 3

Temperature °C of Cooler: 3.9, 3.8, 4.1

Client		Client Project #		Preservative		Parameter		Sample		Preservative Key	
Project Name		Project Location/State		Lab Project #		Lab PM		Comments			
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS		SVOCs	Total Metals	TECP/SPLP
1		CC-7(0-4)-011419	1.14.19	0925	6	S	X	X	X	X	X
2		CC-7(0-4)-011419D	1.14.19	0925	6	S	X	X	X	X	X
3		CC-7(4-8)-011419	1.14.19	0930	6	S	X	X	X	X	X
4		CC-6(0-4)-011419	1.14.19	0945	6	S	X	X	X	X	X
5		CC-6(4-8)-011419	1.14.19	0950	6	S	X	X	X	X	X
6		CC-5(0-4)-011419	1.14.19	1010	6	S	X	X	X	X	X
7		CC-5(4-8)-011419	1.14.19	1015	6	S	X	X	X	X	X
8		CC-4(0-4)-011419	1.14.19	1024	6	S	X	X	X	X	X
9		CC-3(0-4)-011419	1.14.19	1035	6	S	X	X	X	X	X
10		CC-3(4-8)-011419	1.14.19	1040	6	S	X	X	X	X	X

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days 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	Company	Date	Time	Received By	Company	Date	Time
<u>[Signature]</u>	<u>Western</u>	<u>1.14.19</u>	<u>1900</u>	<u>[Signature]</u>	<u>TestAmerica</u>	<u>1/14/19</u>	<u>1900</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
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: 500-157466-1
Client Project/Site: IDOT - Glenwood - WO 032

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

Attn: Mr. Andris Slesers



Authorized for release by:
1/24/2019 4:36:14 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
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- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: CC-1(0-4)-011419

Lab Sample ID: 500-157466-3

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.7	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Bromoform	<1.8		1.8	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Carbon disulfide	<4.4		4.4	0.92	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,1-Dichloroethane	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,2-Dichloroethane	<4.4 *		4.4	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,3-Dichloropropane, Total	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Ethylbenzene	<1.8		1.8	0.84	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Toluene	<1.8		1.8	0.44	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	01/15/19 17:48	01/18/19 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	01/15/19 17:48	01/18/19 01:18	1
Dibromofluoromethane	104		75 - 126	01/15/19 17:48	01/18/19 01:18	1
1,2-Dichloroethane-d4 (Surr)	133		70 - 134	01/15/19 17:48	01/18/19 01:18	1
Toluene-d8 (Surr)	94		75 - 124	01/15/19 17:48	01/18/19 01:18	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	☼	01/17/19 15:47	01/22/19 14:55	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: CC-1(0-4)-011419

Lab Sample ID: 500-157466-3

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Chlorophenol	<180	*	180	62	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Methylnaphthalene	17	J	74	6.7	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Methylphenol	<180		180	59	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Acenaphthene	9.5	J	36	6.6	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Acenaphthylene	12	J	36	4.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Anthracene	37		36	6.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Benzo[a]anthracene	130		36	4.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Benzo[a]pyrene	140		36	7.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Benzo[b]fluoranthene	200		36	7.9	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Benzo[g,h,i]perylene	67		36	12	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Benzo[k]fluoranthene	62		36	11	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Bis(2-chloroethyl)ether	<180	*	180	55	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Carbazole	<180		180	91	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Chrysene	150		36	10	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Dibenz(a,h)anthracene	38		36	7.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Dibenzofuran	<180		180	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Fluoranthene	230		36	6.8	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Fluorene	12	J	36	5.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Hexachloroethane	<180		180	56	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: CC-1(0-4)-011419

Lab Sample ID: 500-157466-3

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	74		36	9.5	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Isophorone	<180		180	41	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Naphthalene	14	J	36	5.6	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Phenanthrene	140		36	5.1	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Phenol	<180	*	180	81	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1
Pyrene	210		36	7.3	ug/Kg	☼	01/17/19 15:47	01/22/19 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	124		31 - 143	01/17/19 15:47	01/22/19 14:55	1
2-Fluorobiphenyl	116		43 - 145	01/17/19 15:47	01/22/19 14:55	1
2-Fluorophenol	97		31 - 166	01/17/19 15:47	01/22/19 14:55	1
Nitrobenzene-d5	104		37 - 147	01/17/19 15:47	01/22/19 14:55	1
Phenol-d5	103		30 - 153	01/17/19 15:47	01/22/19 14:55	1
Terphenyl-d14	148		42 - 157	01/17/19 15:47	01/22/19 14:55	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		01/21/19 09:31	01/21/19 21:38	1
Barium	0.47	J	0.50	0.050	mg/L		01/21/19 09:31	01/21/19 21:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/19 09:31	01/21/19 21:38	1
Cadmium	0.0046	J	0.0050	0.0020	mg/L		01/21/19 09:31	01/21/19 21:38	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Cobalt	0.030		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Copper	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Iron	<0.40		0.40	0.20	mg/L		01/21/19 09:31	01/21/19 21:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/19 09:31	01/21/19 21:38	1
Manganese	3.7		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Nickel	0.028		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/19 09:31	01/21/19 21:38	1
Silver	<0.025		0.025	0.010	mg/L		01/21/19 09:31	01/21/19 21:38	1
Zinc	0.18	J B	0.50	0.020	mg/L		01/21/19 09:31	01/21/19 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Barium	0.59		0.50	0.050	mg/L		01/17/19 14:58	01/18/19 16:44	1
Beryllium	0.0080		0.0040	0.0040	mg/L		01/17/19 14:58	01/18/19 16:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/19 14:58	01/18/19 16:44	1
Chromium	0.18		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Cobalt	0.052		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Copper	0.22		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Iron	190		0.40	0.20	mg/L		01/17/19 14:58	01/18/19 16:44	1
Lead	0.25		0.0075	0.0075	mg/L		01/17/19 14:58	01/18/19 16:44	1
Manganese	1.2		0.025	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Nickel	0.20		0.025	0.010	mg/L		01/17/19 14:58	01/21/19 13:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/19 14:58	01/18/19 16:44	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Client Sample ID: CC-1(0-4)-011419

Lab Sample ID: 500-157466-3

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 19:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.018	J	0.025	0.010	mg/L		01/17/19 14:58	01/18/19 16:44	1
Zinc	0.67		0.50	0.020	mg/L		01/17/19 14:58	01/18/19 16:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Arsenic	7.2		0.56	0.19	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Barium	49		0.56	0.064	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Beryllium	0.64		0.22	0.052	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Cadmium	0.26	B	0.11	0.020	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Calcium	26000	B	11	1.9	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Chromium	15		0.56	0.28	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Cobalt	12		0.28	0.074	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Copper	21	B	0.56	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Iron	16000		11	5.8	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Lead	44		0.28	0.13	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Magnesium	16000		5.6	2.8	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Manganese	410		0.56	0.081	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Nickel	24		0.56	0.16	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Potassium	2100		28	9.9	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Silver	3.3		0.28	0.072	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Sodium	1000		56	8.3	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Thallium	2.0		0.56	0.28	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Vanadium	21		0.28	0.066	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	1
Zinc	71		1.1	0.49	mg/Kg	☼	01/18/19 08:03	01/19/19 00:03	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		01/18/19 11:10	01/21/19 08:09	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		01/21/19 11:00	01/22/19 11:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		18	6.0	ug/Kg	☼	01/17/19 14:40	01/18/19 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			01/21/19 16:34	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable 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
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.
*	LCS or LCSD 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

TestAmerica Chicago

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

1

2

3

4

5

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14

15

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Glenwood - WO 032

TestAmerica Job ID: 500-157466-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-157466 COC

Report To (optional)
Contact: Andriesslegers
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 #: 500-157466
Chain of Custody Number: _____
Page 2 of 3
Temperature °C of Cooler: 39.38/41

Client		Client Project #		Preservative								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter								Comments		
Project Location/State		Lab Project #										
Sampler		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TRP	SPR	PH
1		CC-2(0-4)-011419	1.14.19	1055	6	S	X	X	X	X	X	X
2		CC-2(4-8)-011419	1.14.19	1100	6	S	X	X	X	X	X	X
3		CC-1(6-4)-011419	1.14.19	1105	6	S	X	X	X	X	X	X
4		VL5-1(0-3)-011419	1.14.19	1125	6	S	X	X	X	X	X	X
5		VL2-4(0-6)-011419	1.14.19	1150	6	S	X	X	X	X	X	X
6		VL2-4(6-12)-011419	1.14.19	1155	6	S	X	X	X	X	X	X
7		VL2-3(0-6)-011419	1.14.19	1215	6	S	X	X	X	X	X	X
8		VL2-3(6-12)-011419	1.14.19	1220	6	S	X	X	X	X	X	X
9		VL6-1(0-3)-011419	1.14.19	1225	6	S	X	X	X	X	X	X
10		VL3-4(0-6)-011419	1.14.19	1300	6	S	X	X	X	X	X	X

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ 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>Western</u> Date: <u>1.14.19</u> Time: <u>1900</u>	Received By: <u>[Signature]</u> Company: <u>TestAmerica</u> Date: <u>1-14-19</u> Time: <u>1900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: _____
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: Andris Stiegers
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-157466
Chain of Custody Number: _____
Page 3 of 3
Temperature °C of Cooler: 39, 38, 41

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>		<u>02056.014.032.0020</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>1207-032</u>											
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Orenwood - IL</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>A. Hord</u>		<u>B. WR15 HT</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOL	SOL	Metals	TURB/SPL	pH
<u>11</u>		<u>VL3-4(0-6)-011419D</u>	<u>1.14.19</u>	<u>1300</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>VL3-4(6-12)-011419</u>	<u>1.14.19</u>	<u>1305</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>13</u>		<u>VL3-3(0-2)-011419</u>	<u>1.14.19</u>	<u>1355</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>14</u>		<u>VL3-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1440</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>15</u>		<u>VL3-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1500</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>16</u>		<u>VL3-2(6-11.5)-011419</u>	<u>1.14.19</u>	<u>1505</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>17</u>		<u>VL2-2(0-6)-011419</u>	<u>1.14.19</u>	<u>1600</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>18</u>		<u>VL2-2(6-11)-011419</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>19</u>		<u>VL2-2(6-12)-011419D</u>	<u>1.14.19</u>	<u>1605</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>20</u>		<u>VL2-1(0-5)-011419</u>	<u>1.14.19</u>	<u>1610</u>	<u>6</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 ___ 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>A. Hord</u>	Company <u>Weston</u>	Date <u>1.14.19</u>	Time <u>1900</u>	Received By <u>Galina</u>	Company <u>TestAmerica</u>	Date <u>1-14-19</u>	Time <u>1900</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: _____
Hand Delivered: F

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: